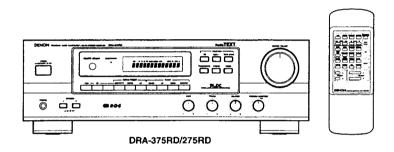
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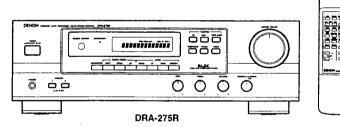
Hi-Fi AM-FM Stereo Receiver

# **SERVICE MANUAL**

# MODEL DRA-375RD MODEL DRA-275RD/275R

# **AM-FM STEREO RECEIVER**





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Some illustration using in this service manual is slightly different from the actual set.

# NIPPON COLUMBIA CO., LTD.

### SAFETY PRECAUTIONS



# **CAUTION**

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

### . FOR U.S.A. & CANADA MODEL ONLY

### CAUTION

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS IPOLARIZEDI PLUG WITH AN EXTENSION CORD. RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

### . POUR LES MODELES AMERICAINS ET CANADIENS UNIQUEMENT

### ATTENTION

POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FI-CHE POLARISEE AVEC UN PROLONGATEUR UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOU-

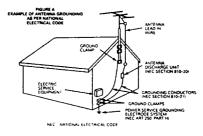
## SAFETY INSTRUCTIONS

- Read Instructions All the safety and operating instructions should be read before the appliance is operated.
- Retain Instructions The safety and operating instructions should be retained for future reference.
- Heed Warnings All warnings on the appliance and in the operating instructions should be adhered to.
- Follow Instructions All operating and use instructions should be followed.
- 5. Water and Moisture The appliance should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.
- Carts and Stands The appliance should be used only with a cart or stand that is recommended by the manufacturer.
- 6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn



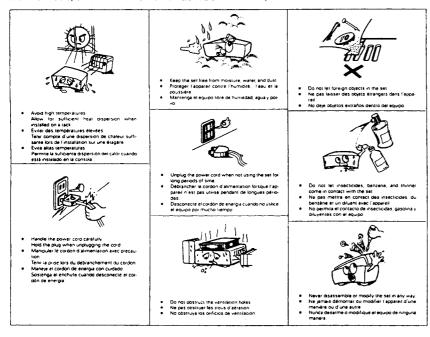
- Wall or Ceiling Mounting The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 8. Ventilation The appliance should be situated so that its location or position does not interfere with its proper ventilation for example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
- Heat The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- Power Sources The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
- Grounding or Polarization Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

- 12 Power-Cord Protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- Cleaning The appliance should be cleaned only as recommended by the manufacturer.
- Power Lines An outdoor antenna should be located away from power lines.
- 6. Outdoor Antenna Grounding If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes. See Figure A.
- Nonuse Periods The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
- Object and Liquid Entry Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- Damage Requiring Service The appliance should be serviced by qualified service personnel when:
  - A. The power-supply cord or the plug has been damaged; or
  - Objects have fallen, or liquid has been spilled into the appliance; or
  - C. The appliance has been exposed to rain; or
  - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
  - The appliance has been dropped, or the enclosure damaged.
- Servicing The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.



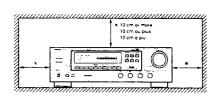
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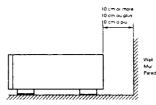
### NOTE ON USE/OBSERVATIONS RELATIVES A L'UTILISATION/NOTAS SOBRE EL USO



### PRECAUTIONS FOR INSTALLATION

- DRA-375RD/275R always install horizontally
- . For heat dispersal, leave at least 10 cm of space between the top, back and sides of this unit and the wall or other components. PRECAUTIONS D'INSTALLATION
- Le DRA-375RD/275R doit toujours être installé horizontalement.
- Afin de disperser la chaleur, faisser un espace d'au moins 10 cm entre le haut, l'arrière et les côtés de cet appareil et le mur ou un autre composant. PRECAUCIONES PARA LA INSTALACION
- Instale siempre el DRA-375RD/275R en posición horizontal.
- Para que el calor se disipe, deje por lo menos 10 cm de espacio entre las partes superior, posterior y laterales de esta unidad y la pared u otros componentes.





### ENGLISH

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| e۱ | dans | le carton:              |  |  |   |
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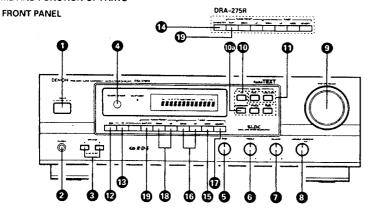
### ESPANOL

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### NAME AND FUNCTION OF PARTS



POWER (Power - ON/STANDBY - OFF Switch)

This switch turns the unit ON or OFF. There is a delay of a few seconds before the unit will operate after this power switch is turned QN. If the u is turned OFF from the remote control, the unit will be in the STANDBY mode. When in the STANDBY mode, the unit can be turned ON with the power button on the remote control. If the unit will not be used for extended period, be sure to turn the unit OFF from the front panel power NOTE:

This unit includes a STANDBY protection feature. This feature is designed to prevent accidental turn-on from the STANDBY mode in the event of a power failure. Should AC power be disconnected and then reconnected when the unit is in STAND-BY mode, the unit will return to the STANDBY mode

To turn the unit ON from the STANDBY mode without the remote control, operate the front panel power switch twice. The unit will then operate normally

### PHONES (Headphones jack)

Connect the headphones to the PHONES jacks

When listening with headphones privately, set A. B. SPEAKER switches to the OFF position NOTE:

To prevent hearing loss, do not raise the volume level excessively when using headphones

### SPEAKER (Speaker selector switches)

These switches are used to engage speaker system A and B. No sound is heard through the speakers when both switches are set to the ( ...... ) position

### REMOTE SENSOR (Remote control sensor)

This sensor receives the infra-red light transmitted from the wireless re-

For remote control, point the wireless remote control unit towards the

### BASS (Bass control)

Use this control to adjust the low-range response

When the control is set to the center position, the frequency characteristic curve (below 1,000 Hz) is flat. Turn the control clockwise to increase the bass response and counterclockwise to decrease it

### TREBLE (Treble control)

Use this control to adjust the high-range response

When the control is set to the center position, the frequency characteristic curve (above 1,000 Hz) is flat. Turn the control clockwise to increase the treble response and counterclockwise to decrease it

### BALANCE (Balance control)

Use this control to balance the volume levels between left and right chan nels. The volume levels in both channels are equal when the control is set

### VARIABLE LOUDNESS (Loudness control)

At low volumes, the human ear is less sensitive to low (BASS) and high (TREBLE) frequencies. Use this control to compensate for this deliciency when listening at low volume levels. Turn this control counterclockwise until a natural balance of bass and treble sound has been restored

### MASTER VOLUME (Volume control)

This knob is used to adjust the volume level of both channels. Turn the knob clockwise to raise the volume and counterclockwise to low

### FUNCTION (Input selector buttons)

- These buttons are used to select the audio input source
- PHONO Press to play a record on a record player connected to the PHONO input jacks
- CD: Press to listen to a compact disc player or another compo
- nent connected to the CD input jacks.
- Press to listen to FM or AM programs.
- VIDEO Use when playing back the audio from a Hi-Fi video, video disc player or other component connected to the VIDEO
- If a function switch is pressed quickly, the function may not actually change and no signal may be heard from the speakers for an instant To avoid this, be sure to press function switches carefully

### BAND (Band selector button)

Press this button to select the FM or AM band, when the set is

### Tape selector (Tape selector/monitor buttons)

TAPE-1: Press this button once, TAPE-1 indicator will light up and then you can play tape source on TAPE-1 terminal. In this state you can copy TAPE-1 source to TAPE-2/VCR terminal TAPE-2/VCR: Press this button once, TAPE-2 indicator will light up and

then you can play tape or video source of TAPE-2/VCR terminal. Press again the button currently accessed, to play sources selected by input selector (1), indicator goes out.

### RDS button (DRA-375RD)

This button is used for the RDS search (refer to page 11) and PTY search (refer to page 11), and TP search (refer to page 11) operations, and to input the station name, frefer to page 12.)

### RT (Radio Text) button (DRA-375RD)

This button is used for displaying radio text messages When this button is pressed while the station currently tuned in is offering a radio text message service, the message scrolls on the display This mode turns on and off each time the button is pressed, trefer to page

- CHARACTER button (DRA-275R) This button is used to write station names, freler to page 12.)
- MODE (Tuning mode button)

This switches between auto and manual tuning

Auto tuning: When the UP button to is pressed, the radio is tuned automatically to a higher frequency. Press the DOWN button (b) to tune to a lower frequency. Use this position to eliminate noise when no signals or weak signals are being received.

Manual tuning: In this position, the radio can be tuned manually. Reception is automatically monaural when in the manual mode.

### TUNER (Tuning up / down buttons)

Use these to change the received frequency to a higher frequency (UP) or a lower frequency (DOWN)

When writing station names, use these buttons to select the latters, frefer to page 12 I

### MEMORY (Memory button)

This switch is used to store the desired radio station to a memory.

### · Presetting stations

After pressing the MEMORY button, press the SHIFT/PTY button (the SHIFT button for the DRA-275R), then select the memory block. A to E. Now use the PRESET UP and DOWN buttons to specify the preset channel number. Press the MEMORY button again to store the station at the specified preset channel

### TUNING PRESET (Preset station buttons)

These buttons are used for storing stations or recalling stations which have been preset. Using the SHIFT/PTY button (the SHIFT button for the DRA-275R) you can preset a total of 40 FM or AM stations into preset

Once a radio has been memorized the same station can later be tuned in instantly simply by recalling the corresponding preset channel with PRE SET UP or DOWN bullon

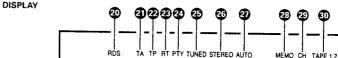
### SHIFT / PTY button (DRA-375RD)

Use this button to select the memory blocks, A (1 to 8), B (1 to 8), C (1 to 8), D (1 to 8) or E (1 to 8)

For PTY search, use this button to select the program type When writing station names, use this button to set the writing posi-

### SHIFT button (DRA-275R)

Use this button to select the memory blocks, A (1 to 8), B (1 to 8), C (1 to 8). D (1 to 8) or E (1 to 8)



RDS Indicator (DRA-375RD)

This lights when receiving RDS broadcasts, and flashes during the RDS

- TA (Traffic Announcement) indicator (DRA-375RD) This lights when receiving traffic announcements
- TP (Traffic Programme) indicator (DRA-375RD) This flashes during the TP search operation and lights when TP stations are tuned in
- RT indicator (DRA-375RD) This lights when the RT (Radio Text) button is pressed
- PTY indicator (DRA-375RD)
- This flashes during the PTY (Programme type) search operation
- TUNED indicator This lights when a station is properly tuned in

ing AM broadcasts

STEREO indicator This lights when receiving stereo broadcasts. It remains off when receivØ **AUTO Indicator** 

This indicates the tuning mode. It lights in the auto mode, and remains off

### MEMO indicator

This indicator flashes for approximately 10 seconds when the MEMORY button has been pressed and a station can be stored on a PRESET CHAN-NEL button

This flashes continuously during the auto memory operation

### CH indicator

This lights when the preset channel number and shift mode (A, B, C, D or

### TAPE-1/TAPE-2 indicator

The TAPE-1 indicator lights when the TAPE-1 source is selected with the tape selector buttons. The TAPE-2 indicator lights when the TAPE-2/VCR source is selected

### Multi function display

This displays the frequency, station name, programme type, etc.

### FM ANT (FM antenna terminals)

75-Ω/ohms coaxial cable can be connected to this terminal. For antenna connecting procedure, refer to page 9 and 10

### Ø AM ANT (AM antenna terminals)

Connect the attached AM loop antenna. (Refer to page 9 and 10 for con-

### GND (Grounding terminal)

The grounding wire of the turniable is connected here

 Hum or noise may be generated if the grounding wire is not connected

### PHONO (Phono input terminals)

The output cord of the turntable is connected here

Since the input sensitivity of "PHONO" is extremely high, do not use the unit without the input pin cord. If used without this cord, the speakers may generate hom.

- G CD
  - The output cord of the CD player is connected here
- O VIDEO

The audio outputs of VIDEO equipment, such as a VCR or Video Disc may be connected here

TAPE-1, TAPE-2/VCR (Tape deck and/or VCR playback / recording terminal)

Two tape decks or tape deck and VCR can be connected to these jacks for full-fledged playback, recording and tape dubbing operation.

0 SPEAKER SYSTEMS (Speaker terminals) Two pairs of speakers A and B can be connected to these terminals.

### AC OUTLET (AC power outlets)

This AC outlet is controlled by the power switch. Maximum capacity is

### AC CORD (Power cord)

Connect this cord into the wall outle

### **1** VIDEO (Video input/output terminals)

As a full-featured AV center, this receiver makes possible connection of a TV monitor VCR and/or a video disc player (Video) to these jacks

- ① Simulcast monitor
- Select the desired audio source after selecting VIDEO function. You can monitor the selected audio source with the picture from the VID-EO input
- 2 VCR monitor
- When the TAPE-2/VCR is selected, you can only monitor the sound and picture from the TAPE-2/VCR input. Even you select the audio source after selecting TAPE-2/VCR, the sound and picture remains TAPE-2/VCR.
- If you select the audio source after selecting VIDEO function, you can record the selected audio and picture from VIDEO input into VCR

### CAUTION

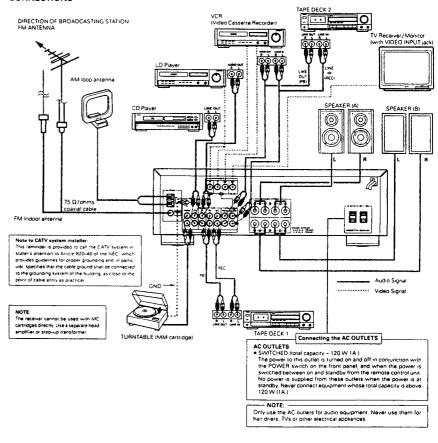
### Protective Circuit

This set is equipped with a high speed protective circuit. This circuit protects the internal circuitry from damage due to large currents flowing when the speaker jacks are not completely connected or when an output is generated by a short circuit.

This protective circuit's operation cuts off the output to the speakers. In such a case, be sure to turn the power to the set off and check the connections to the speakers. Then turn the power on again, After muting for several seconds, the set will operate normally.

- . This receiver has a full back-up system. When the power is turned on, the FUNCTION is set automatically to the last mode before the power was turned
- When using this receiver in close proximity to video equipment (TV, VCR, VDP, etc.), noise may be generated in AM broadcasts. To avoid this, keep the receiver as far away from other video components as possible, or place the AM loop antenna where noise is reduced. If the noise is not reduced, turn off the power of the video components when listening to AM broadcasts.

### CONNECTIONS



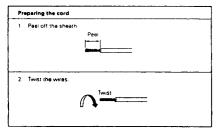
### Notes on Connection

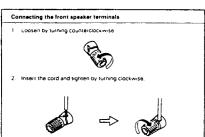
- Do not plug the power cord into the AC wall cutlet until all connections have been completed.
- Make sure channels are correctly connected. Connect Left channels to Left channels and Right channels to Right channels. Follow the color markings of plugs and terminals to make sure mistakes are not made
- Connect all pin-plugs securely, pushing them completely into the jacks. Incomplete connections will cause noise generation.
- Binding the connection cables to power cords, or running such cables close to power supply transformers will cause humming or noise, and should thus

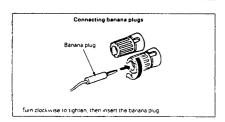
5

### SPEAKER CONNECTION

Confirm polarity (+, -) and left and right channels (L, B). Connect the speaker pairs to the SPEAKER terminals A or B on the back panel. Connections must be made with power cord disconnected







### Speaker Impedance

- When speaker systems A and B are use separately speakers with an impedance of from 6 to 16  $\Omega$ /ohms can be connected.
- . Be careful when using two pairs of speakers (A + B) at the same time, since use of speakers with an impedance outside the range of 12 to 16 Q / ohms will lead to damage
- . The protection circuit may operate or damage may occur when speakers with an impedance outside of the above range are used.

### ANTENNA INSTALLATION

### FM ANTENNA

The supplied indoor FM antenna can be used inside wooden houses for receiving local FM stations and other strong FM signals. Stretch out the ends of the antenna and mount the antenna on the wall or ceiling where optimum reception is achieved. A indoor FM antennas may not consistently ensure stable reception, due to environment changes. In such cases, the indoor FM antenna should only be used temporarily until an outdoor FM antenna has been installed

When connecting an outdoor FM antenna, the use of 75 Q/ohms coaxial cable (3C-2V, 5C-2V) is strongly recommended

Do not connect two FM antennas simultaneously

### AM LOOP ANTENNA

Tune in an AM station, listen to the sound, then install the antenna in a position as far from the set as possible in which distortion and noise are minimum. Good reception of AM stations is not possible if the loop antenna is not connected or if it is touching metal objects

### **USING THE VARIOUS FUNCTIONS**

### 1. Presetting stations in the memory

The frequency and the name of the radio station (including names which you have input yourself), are also stored in the memory. In particular, the various RDS functions can be used affectively when RDS sta-

tions are stored in the memory How to preset the memory.

Press the MEMORY button 1 . The "MEMO CH" indicator on the display flashes. Next, use SHIFT/PTY button (1) to select the memory block A. B. C. D or E. Now press the TUNING PRESET UP or DOWN button 18 to specify the preset channel number, and then press the MEMORY button 10 to store

The preset channel numbers for the different memory blocks are as follows

| Memory block A | 1 to 8   |
|----------------|----------|
| Memory block B | 1 10 8   |
| Memory block C | 1 to 8   |
| Memory block D | 1 to 8   |
| Memory block E | . 1 to 8 |

The DRA-275R does not have a SHIFT/PTY button. Use the SHIFT button.

### 2. Auto Memory (FM only)

The DRA-375RD/DRA-275R is equipped with an auto memory function. Connect the antenna, set it so that stations can be received, then hold in the MEMORY button and press the POWER button to turn the power on. Stations for which the auto tuning function operates are stored in the preset memory in the order A1 to A8, 81 to 88, and so on, through E8.

Channel A1 is tuned in after the auto memory operation is completed Using this function makes it possible to find out the overall reception conditions of the receivable stations. The memory can be used effectively by recailing the channels in the preset memory and replacing stations whose reception is poor with stations whose reception is good, using the procedure

### 3. Recalling preset stations

Use the SHIFT/PTY button (1) to select memory block A, B, C, D or E, then press the TUNING PRESET UP or DOWN button (1) to recall the station

If the TUNING PRESET UP or DOWN buttons are pressed without pressing the SHIFT/PTY button (B), the stations are recalled in the order A1 to A8, 81 to B8, and so on, through E8

The DRA-275R does not have a SHIFT/PTY button. Use the SHIFT button (I) instead

### 4. RDS search (for FM only) (DRA-375RD only)

Use this function to automatically tune to stations offering Radio Data Service. This operation is also possible by pressing the TUNER button on the remote control unit once when the function is set to the TUNER mode.

|    | Operation                                     | Display   |
|----|---|---|
| 1. | Press the RDS button @ once.                  | RDS SEARCH  |
| 2. | Pless the TUNING PRESET UP of DOWN button (1) | "RDS SEARCH" flashes on this display. IPreset memory channels At to EB are being searched.) If no RDS station is found with his above operation, all the reception bands are searched. The station name is displayed when the RDS station is funed. |

3. Press the TUNER UP or DOWN button (D) again while the RDS mark is flashing.

(if no other RDS station is found when all the frequencies are searched, "NO RDS\* is displayed.)

RDS search starts again

### 5. PTV search (for FM only) (DRA-375RD only)

Use this function to find stations broadcasting a designated type of programme type (PTY)

This operation is also possible by pressing the TUNER button on the remote control unit twice when the function is set to the TUNER mode. Next, press the PANEL button on the remote control unit, select the PTY category, then press the TUNING PRESET UP or DOWN buttons to start the PTY search function in the specified direction

| Operation   | Display   |
|---|---|
| Press the RDS button  twice.  | PTY SEARCH  |
| 2 Press the SHIFT/PTY button  | Programme type or PTY. Designated programme type  |
| (Always do this to designate the prog   | ramme type if "PTY" is displayed in step  |
| 3. Press the TUNING PRESET UP or OOWN builton <b>⊕</b>                                | "PTY SEARCH" flashes on the display. (Preset memory channels A1 to E8 are being searched!) If there is no station broadcasting the designated programme type with the above operation, all there ception bands are searched. The station name is displayed after searching stops. |
| Press the TUNING PRESET UP<br>or OOWN button again while<br>the PTY mark is flashing. | PTY search starts again   |

Iff no other station broadcasting the designated programme type is found when all the frequencies are searched, "NO PROGRAMME" is displayed.)

The programme types which can be displayed are listed on page 12.

### 6. TP search (for FM only) (DRA-375RD only)

This function is used to find stations scheduled to broadcast traffic programmes ITP stations). This operation is also possible by pressing the TUNER button on the remote control unit three times when the function is set to the TUNER mode.

| Operation  | Display  |
|--|--|
| Press the RDS button   I times.  The Press the TUNING PRESET UP or DOWN button   Output ton   Ou | Usplay  IP SEARCH  TP SEARCH 'flashes on the display  Preset memory channels A1 to E8 are being searched ) If no IP station is found with the above operation, all the "reception bands are searched." The station name is displayed after |

3 Press the TUNING PRESETTIE or DOWN button again while the TP mark is flashing.

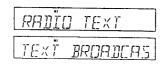
III no other TP station is found when all the frequencies are searched. "NO PROGRAMME" is displayed.)

searching stops.

TP search starts again.

### 7. RT (Radio Text) (for FM only) (DRA-375RD only)

When the RT button (1) is pressed while the station currently tuned in is offering a radio text message service, the message scrolls on the display. (The RT indicator lights when the RT button is pressed.)



("NO TEXT DATA" is displayed if no radio text message is being broadcast ).

SOFT

NOSTRLGIR

CLASSICAL

SOFT R+B

LANGUAGE

REL

PUBLIU

MUSIC

TALK

PERSONALITY

You can write in station names yourself (Up to 8 characters) (Refer to the table of characters on page 12)

Operation 1 Press the RDS button 4 times.

Display First space flashes.

2 Use the TUNER UP and DOWN buttons (B) to select the desired characters 3 Use the SHIFT/PTY button (1)

frefer to page 7.)

8. Writing station names

Specified place flashes

- to move to the next place 4 After writing the entire station name, store it in the memory
- The DRA-275R does not have an RDS button. Use the CHARACTER button the DRA-275R does not have a SHIFT/PTY button. Use the SHIFT button

Each operation should be completed while the specified place is flashing

NOTE: This unit may not identify RDS stations as such if the paging station provides multiple RDS data. Tuning may not stop at such stations during the RDS search and PTY search operations.

### **RDS Emergency Alert**

NEWS

SPORTS

CLS ROCK

RBULT HITS

SOFT ROCK

TDP 40

COUNTRY

OL DIES

TRUK

ROCK

INFORMATION

"ALERT" will flash on the display when the unit receives the Emergency Programme Type Code (PTY31) from an RDS station

This feature may not operate properly if the signal from the RDS station is too. weak or is subjected to interference It is not possible to select the "ALERT" display from the PTY search mode

\* The following programme types (PTY) can be designated

- 9. Clearing station names
- Recall the station name you want to clear
- Press the RDS button 4 times until the character at the first place flashes.
- Then press the SHIFT/PTY button for at least 2 seconds. The current sta-
- \* The DRA-275R does not have an ROS button. Use the CHARACTER button
- The DRA-275R does not have a SHIFT/PTY button. Use the SHIFT button.

Station names MUST be stored in a preset memory to be retained. If the power is turned off, or if the band (AM/FM) is changed, the station name will be fost. Be sure to store the entered station name in a Present Memory before changing the band or turning the power switch OFF

### **RDS Emergency Alert Feature**

The RDS Emergency Alert Feature is activated by a signal sent at the sole discretion of the ROS broadcaster. The RDS Emergency Alert Feature is included in this product for the convenience of the consumer, and is not intended to augment or replace the Official Emergency Broadcast Systern as administered by the Federal Communications Commission. For this reason, Nippon Columbia Co. and it's Subsidiaries, including but not limited to DENON America, Inc. and DENON Canada, Inc., refuse all Warranties, claims of merchantability or fitness, or liabilities, whether incidental, consequential or otherwise, related to, either directly or indirectly, the operation or lack of operation of this feature. This exclusion applies to any and/or all Nippon Columbia Co. Products, whether present or future, that implement, in any form or variation, the RDS Emergency Alen Feature

Sof

Jazz

Nostalpia

Classical

Soft R & B

Language

Religious Music

Religious Talk

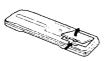
Personably

RAA

### PLAYBACK USING THE REMOTE CONTROL

The accessory RC-812 remote control unit is used to control the RECEIVER from a distance

### (1) Inserting the dry cell batteries



2 Insert two size "AA" (R6) dry cell batteries as shown in the diagram on



3 Close the rear cover



### Notes on Use of the Batteries

- The remote control unit uses size "AA" (R6) dry cell batteries.
- . The batteries will need to be replaced approximately once a year. This will depend upon how often the remote control is used.
- . If, in less than a year from the time new batteries were inserted, the remote control fails to operate the receiver from a near-by position, it is time to replace the batteries.
- . Insert the batteries properly, following the diagram on the remote control battery supply unit, and making sure to align the plus and minus sides of each battery
- · Batteries are prone to damage and leakage. Therefore
- . Do not combine new batteries with used ones.
- Do not combine different types of batteries.
- . Do not immoer the opposite poles of the batteries, expose them to heat or break them open, or out them into open fire
- . When the ramote control is not to be used for a long period of time, ramove the batteries from the unit.
- · If the batteries have leaked, remove any battery fluid from the inside of the battery supply unit by wiping it out thoroughly, and insert new batteries





- Operate the remote control unit while pointing it towards the remote control sensor on the receiver as shown in the diagram left.
- The remote control unit can be used at distances up to about 7 meters/20 feet in a straight line from the receiver. This distance will decrease if there are obstructions blocking the infra-red light transmission or if the remote control unit is not directed straight at the receiver.

### Note on Operation

- Do not press the operating buttons on the receiver and the remote control unit at the same time. This will cause misoperation
- Operation of the remote control unit will become less effective or erratic if the infrared remote control sensor on the receiver is exposed to strong light or if there are obstructions between the remote control unit and the sensor
- In case you operate your VCR, TV or other components by remote control, do not operate buttons on two different remote control units at the same time. This will cause misoperation

Table of characters

The characters are input in the order shown to the right. Use the TUNER UP/DOWN buttons (6) to select the desired characters

→RBCBEFSHIJKLMNOPDRSTUVWXYZ---0 123458789( \ )-% / (: \*+, -, /<sub>3</sub> space-

Classic Rock

Adult Hits

Soft Rock

Country

DRA-375RD/275RD/275R

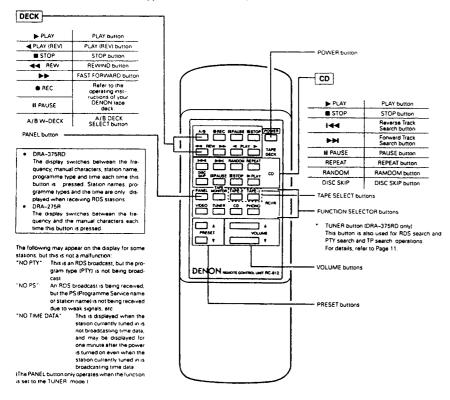
# Besides being able to operate the DRA-375RD/275R receiver with this remote control unit, you can also operate a DENON cassette deck and CD player from this handy full-system remote control unit.

Remote Control Section

Full-system Remote Control Linux

The full-system remote control unit operates all major functions of the receiver such as function switching, volume control, and preset station selection. But that's not all. The same control pad can also control the major functions of a DENON CD player and cassette deck to create a remarkably ergonomic and versatile DENON system with all the quality sound reproduction that the devoted sudophile expects.

### Remote Control Unit RC-812 supplied with DRA-375RD/275R



- The RC-812 Remote Control Unit can control CD players and cassette decks made by DENON
- Note that operation may not be possible for some models
- Buttons are conveniently separated into groups, each group controlling one specific component. The groups are RECEIVER, CD and DECK.

For details on operating other components, refer to the instruction manuals for the CD player and/or cassette deck

### CAUTION:

- If the power is turned off with the remote control unit, the receiver is switched to the power stand-by state. If you are to be absent for a long period of time, be sure
  to turn the power off using the POWER switch on the receiver.
- A part of 1st digit of fluorescent display light while the receiver is in the power stand-by state.
- You may experience erratic operation of the remote control unit if it is operated in fluorescent light and direct sunlight, in particular if this light strikes the remote control sensor on the receiver. However, this is not a malfunction, and if this should happen, protect the sensor against such light.

### **TROUBLESHOOTING**

- 1. Have all connections been made PROPERLY?
- . Have you followed all operational instructions correctly?
- 3. Are the speakers, turntable, and other components operating properly?

When your unit does not seem to be operating correctly, first check the items in the following table: If the symptom does not correspond to any of the problems as shown below, turn off the power sources immediately and contact your DENON dealer.

| Problem  | Cause  | Remedy   |
|--|--|--|
| FM AND AM RECEPTION  |  |  |
| Radio program can not be received.   | Antenna connection is wrong.     A signal strength is weak.  | Check the connection     Check the antenna installation.   |
| Noise is reproduced.   | A signal strength is week     Automobile ignition noise interferes with reception     Other electrical equipment interferes with reception   | Install an outdoor antenna     Keep the antenna away from the street:     Keep the adupment away from this set, or turn off the power of the other equipment.  |
| The preset frequencies are erased.   | The memory back-up term labout 1 month) passed.  | Preset again   |
| In automatic tuning, the frequency doesn't stop at the radio station                               | A signal strength is weak.   | Use manual tuning.   |
| In automatic tuning, it stops at the one step lower<br>or higher frequency than the radio station. | Noise or strong signal strength is received.   | Use manual tuning for optimum reception  |
| PLAYBACK OF THE AUDIO EQUIPMENTS   |  |  |
| No sound is produced with power on.  | Input and speaker cords connection are wrong. Speaker switch is off The FUNCTION buttons are in wrong position The protective circuit is operating The fuse has blown out.  The power switch was set to OFF the last time the power was turned off from the remote control unit. | Check the connection.  Turn on speaker switch Check these position Turn the power off once, check the connections to the speakers, then turn the power on again Ask your dealer, or the nearest DENON representative. Set the power switch to ON, then turn the power on from the remote control unit. Or, push the power switch on the front penel twice. |
| Audible hum when playing records   | The input and grounding cords connection of the turntable are wrong. The cords connection of the cartridge are wrong. The interference from the nearby TV or radio transmission antenna.   | Check the connection Check the connection Ask your dealer, or the nearest DENON representative   |
| Howling is produced when the volume control is turned up too high while playing records            | The vibrations and sounds transmit from the speakers to the turntable.   | Insulate the vibrations, or keep the speakers away from the turntable  |
| Cracking noise is produced when playing re-<br>cords.  | The record is stained with the dust The stylus tip of the cartridge is stained with the dust The cartridge is defective.   | Clean the record. Clean the stylus tip Try the other cartridge.  |

# **SPECIFICATIONS**

**AMPLIFIER SECTION** 

Continuous Power Output: DRA-375RD: 60 watts per channel minimum

RMS, both channels driven at 8 Ω/ohms from 20 Hz ~ 20 kHz no more than 0.05% total har-

monic distortion.

DRA-275R: 40 watts per channel minimum RMS, both channels driven at 8  $\Omega$ /ohms from 20 Hz - 20 kHz no more than 0.05% total har-

monic distortion.

Power Bandwidth (IHF):

10 Hz ~ 40 kHz (T.H.D. 0.15% both channels

driven into 8 \(\Omega/\text{ohms}\)

**Total Harmonic Distortion:** 

Frequency Response:

0.03% (-3 dB at rated output, 8  $\Omega$ /ohms) PHONO RIAA Standard Curve (Recording

Output)

ММ

20 Hz ~ 20 kHz ± 0.5 dB 20 Hz ~ 50 kHz ± 1.5 dB

CD, VIDEO, TAPE-1. TAPE-2/VCR

(at 1W)

Input Sensitivity and

Impedance:

PHONO MM CD, VIDEO,

2.5 mV 47 kΩ/k ohms 150 mV 47 kΩ/k ohms

180 mV

TAPE-1, TAPE-2/VCR

Maximum Input Level (at 1 kHz)

Signal to Noise Ratio (IHF-A):

PHONO MM

78 dB (at 5.0 mV input) PHONO MM

CD, VIDEO, 95 dB TAPE-1, TAPE-2/VCR

Tone Controls:

BASS TREBLE

± 10 dB at 100 Hz  $\pm$  10 dB at 10 kHz

Loudness, Control Effect:

VARIABLE LOUDNESS

 $50 \, Hz / 10 \, kHz$ ,  $+ 10 \, dB / + 5 \, dB$ 

**VIDEO SECTION** 

Input terminal:

Output terminal:

VCR-IN, VIDEO 1 Vp-p/75 Ω/ohms VCR-OUT, MONITOR 1 Vp-p/75 Ω/ohms

5 Hz ~ 6 MHz ± 1.5 dB Frequency response:

**TUNER SECTION** 

**[FM]** (note:  $\mu$ V at 75  $\Omega$ /ohms, 0 dBf = 1  $\times$  10<sup>-15</sup> W)

Receiving Range: Usable Sensitivity:

87.50 ~ 108.00 MHz 0.9 µV (10.3 dBf) 50 dB Quieting Sensitivity: MONO 1.6 μV (15.3 dBf) STEREO 23 µV (38.5 dBf)

Signal to Noise Ratio

(IHF-A):

MONO 82 dB STEREO 78 dB

**Total Harmonic Distortion** 

(at 1 kHz):

MONO 0.1% **STEREO 0.15%** 

Canture Ratio Image Rejection: AM Suppression: 1.5 dB 42 dB 50 dB

Selectivity ( ± 400 kHz): 55 dB 30 Hz - 15 kHz 102 dB

Frequency Response: Stereo Separation

(at 1 kHz):

40 dB

[MA]

520 ~ 1710 kHz Receiving Range: 18 uV

Usable Sensitivity: Signal to Noise Ratio:

55 dB

**GENERAL** 

Weight:

Power Supply: **Power Consumption:**  AC 120V 60 Hz 2.6 A (DRA-375RD) 2.3 A (DRA-275R)

Dimensions:

434 mm (17-3/32")W x 142 mm (5-19/32")H x 315 mm (12-25/64")D (DRA-375RD) 434 mm (17-3/32")W × 142 mm (5-19/32")H × 315 mm (12-25/64")D (DRA-275R)

6.6 kg (14 lbs 9 oz) (DRA-375RD)

5.8 kg (12 lbs 13 oz) (DRA-275R)

REMOTE CONTROL UNIT

Remote control system:

Power supply:

Infrared pulse system

3V DC Two size "AA" (R6)

dry cell batteries

RC-812

**External dimensions:** 

60 mm (2-23/64")W × 175 mm (6-57/64")H

× 18 mm (45/64")D

Weight: 120 g (4 oz) (Includes batteries)

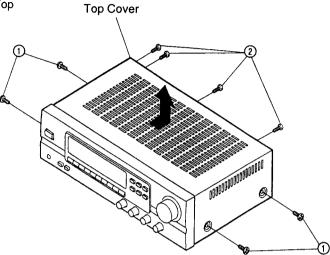
Design and specifications are subject to change without prior notice.

# **DISASSEMBLY**

(To reassemble reverse disassembly)

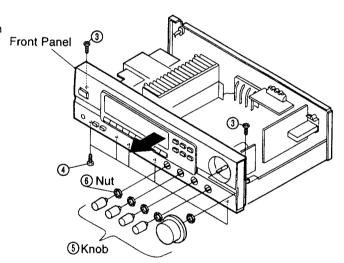
# Top Cover

Remove 4 screws ① and 4 screws ② then detach the Top Cover as shown in the figure.



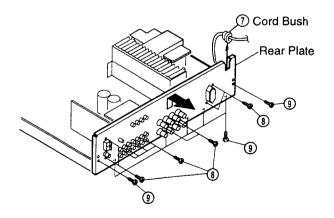
# Front Panel

- 1) Remove 2 screws 3 and 5 screws 4.
- 2) Pull out 5 knobs (5) and unfasten 5 nuts (8), and detach the Front Panel as shown in the arrow direction.



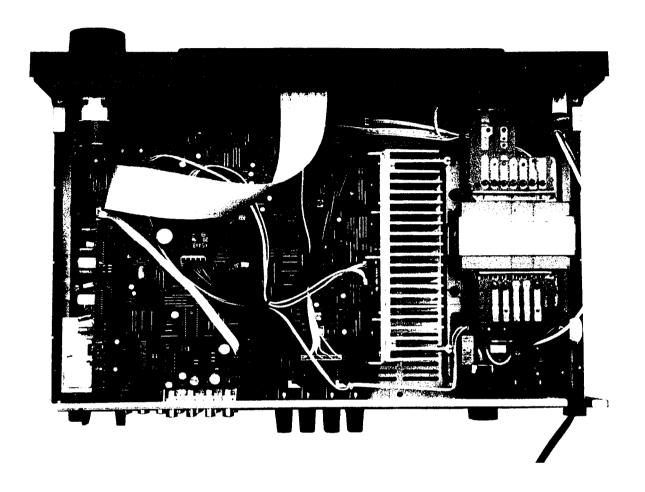
# Rear Panel

- 1) Pull out the cord bush ①. as shown in the arrow direction.
- 2) Remove 10 screws (3) and 7 screws (3), then detach the Real Panel in the arrow direction.

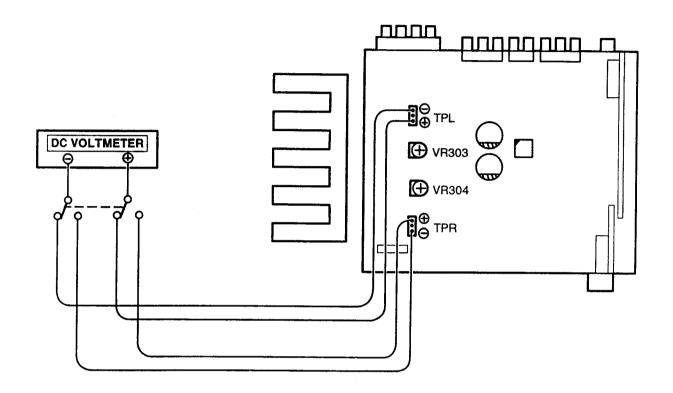


# **WIRE ARRANGEMENT**

In case of wires require unclasping or loosening to move the location to perform adjustment or part replacement, be sure to rearrange them neatly to restore properly in the same location as they were originally placed, or causing to produce a noise may occasionally occur.



# **METHOD OF ADJUSTMENTS**



# **IDLING CURRENT**

(1) Set controls as follows.

POWER Switch  $\rightarrow$  off ( $\blacksquare$ ) **VOLUME Control**  $\rightarrow$  0 (min)  $\rightarrow$  off ( $\blacksquare$ ) **SPEAKERS** 

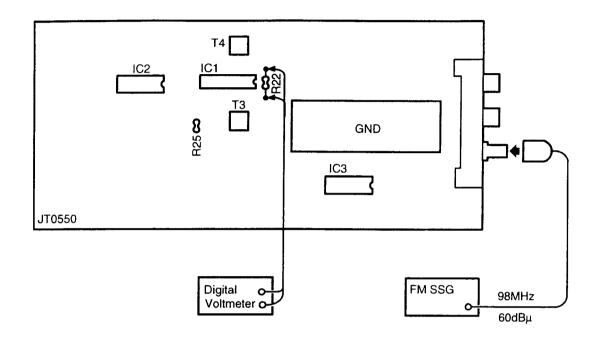
→ 15°C ~ 30°C (59°F ~ 86°F) → min. (♠) Temperature

VR303 and VR304

- (2) Connect DC Voltmeter to the TPL (Lch) and TPR (Rch).
- (3) Turn the Power Switch on and rotate VR303 clockwise so that the DC Voltmeter reads 3 mV ±0.5 mV DC at the TPL. Follow the same procedure to VR304 for TPR.

# **CONNECTION DIAGRAM OF MEASURING INSTRUMENTS**

# FM SECTION



Adjust T4 potential difference across R22 should be within 30mV.

## Initiating (Memory clearing) Method

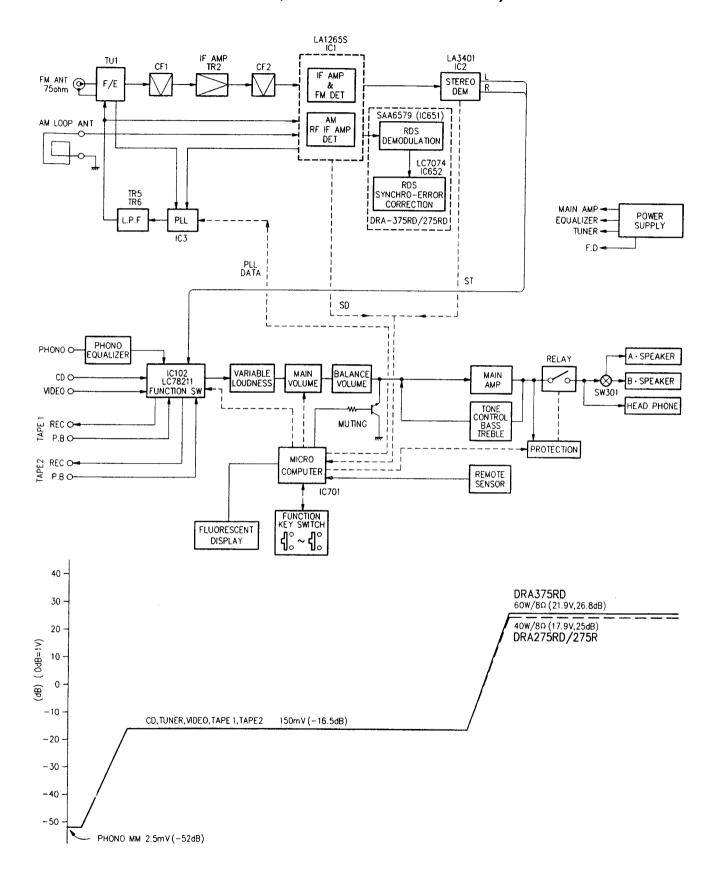
To clear memory contents of microcomputer and restore to the initial state, take the following steps;

- (1) Press power switch, turn off power of the unit.
- (2) Disconnect AC power cord from wall outlet temporarily.
- (3) Insert power cord into outlet while simultaneously pressing two keys of TUNER and VIDEO SELECT.
- (4) Press power switch to confirm that memory contents are cleared.

By completion of the above, the initial state is restored. In case the memory can not be cleared due to some reasons, repeat steps 1 through 3.

Note: If the Power does not turn on and nothing is displayed except STAND-BY LED even after the above item #4 is performed, the unit may be stay remained in the STAND-BY Mode. In such a case, please refer to the Operating Manual, item "POWER" of the "NAME AND FUNCTION OF PARTS" for details.

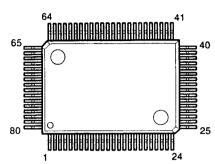
# BLOCK/LEVEL DIAGRAM (DRA-375RD/275RD/275R)

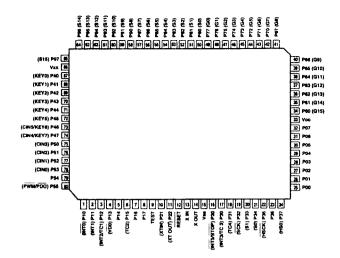


# **SEMICONDUCTORS**

# ● IC's

# TMP87CM71F (IC701)



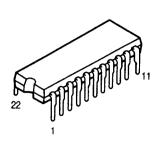


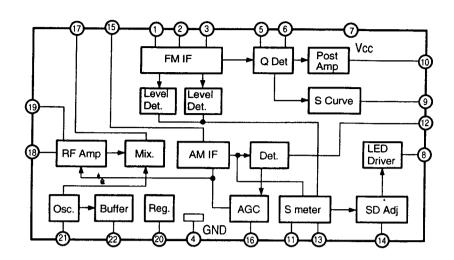
# TMP87CM71F Port Allocation Table

|            | P8/CIVI  |     |        |                    |   |  |  |  |
|------------|----------|-----|--------|--------------------|---|--|--|--|
| Pin<br>No. | Symbol   | 1/0 | Logic  | Initia:<br>Setting | Function  |  |  |  |
| 1          | STOP     | 1   | L      |                    | Power down detection (*L* = at power down).       |  |  |  |
| 2          | MUTE (A) | 1   |        | -                  | MUTE (A) output ("H" = MUTE)                      |  |  |  |
| 3          | RDS      | 1   | Serial |                    | RDS data (start) input.                           |  |  |  |
| 4          | RES      | 0   | L      | Н                  | LC7074 reset output.                              |  |  |  |
| 5          | GND      | 1   | Serial |                    | Not used.   |  |  |  |
| 6          | FCK      | 0   | Serial | L                  | Function control output (LC7821) for F-CK.        |  |  |  |
| 7          | FDA      | 0   | Serial | L                  | Function control output (LC7821) for F-DATA.      |  |  |  |
| 8          | F STB    | 0   | н      | L                  | Function control output (LC7821) for F-STB.       |  |  |  |
| 9          | GND      | 1   |        | _                  | Connect to GND.                                   |  |  |  |
| 10         | SD       | J   | L      |                    | Tuned signal input ("L" = at tuned in).           |  |  |  |
| 11         | GND      | 1   |        |                    | Not used.   |  |  |  |
| 12         | RESET    | 1   | L      |                    | Reset input.                                      |  |  |  |
| 13         | XIN      | 1   | -      | -                  | Oscillation circuit (4MHz).                       |  |  |  |
| 14         | XOUT     | 0   | _      | _                  | Oscillation circuit (4MHz).                       |  |  |  |
| 15         | Vss      | PW  | _      | _                  | GND   |  |  |  |
| 16         | GND      | ı   |        | _                  | GND   |  |  |  |
| 17         | REM      | 1   | L      | _                  | Remote control signal input.                      |  |  |  |
| 18         | ST       | ı   | L      | _                  | Stereo signal input ("L" = at stereo).            |  |  |  |
| 19         | RCK      | 1   | Serial | _                  | RDS data (clock) input.                           |  |  |  |
| 20         | RDA      | 1   | Serial | _                  | RDS data (data) input.                            |  |  |  |
| 21         | GND      | 1   | _      | _                  | Not used.   |  |  |  |
| 22         | PCK      | 0   | Serial | L                  | LM7001 control output for PLL-CK (CL).            |  |  |  |
| 23         | PDA      | 0   | Serial | L                  | LM7001 control output for PLL-DATA (DATA).        |  |  |  |
| 24         | PSTB     | 0   | π      | L                  | LM7001 control output for PLL-STB (CE).           |  |  |  |
| 25         | GND      | 0   | _      | L                  | GND   |  |  |  |
| 26         | GND      | 0   | 1      | L                  | GND   |  |  |  |
| 27         | A/M      | 0   | L      | L                  | AUTO/MANUAL control.                              |  |  |  |
| 28         | GND      | ł   |        |                    | Not used.   |  |  |  |
| 29         | P O/F    | 0   | н      | L                  | Power control output ("H" = ON).                  |  |  |  |
| 30         | VR-UP    | 0   | н      | L                  | Power volume control output (LB1639 ON = at "H"). |  |  |  |
| 31         | VR-D     | 0   | Н      | L                  | Power volume control output (LB1639 ON = at "H"). |  |  |  |
| 32         | SP-R     | 0   | н      | L.                 | Speaker relay control output (ON = at "H").       |  |  |  |
| 33         | VDD      | PW  | _      | _                  | +5V   |  |  |  |
| 34         | GND      | 1   |        |                    | GND   |  |  |  |
| 35         | GND      | 1   | _      | _                  | GND   |  |  |  |
| 36         | 1G       | 0   |        | _                  | FL tube control output for 1G.                    |  |  |  |
| 37         | 2G       | 0   | _      |                    | FL tube control output for 2G.                    |  |  |  |
| 38         | 3G       | 0   |        | _                  | Fi. tube control output for 3G.                   |  |  |  |
| 39         | 4G       | 0   |        |                    | FL tube control output for 4G.                    |  |  |  |

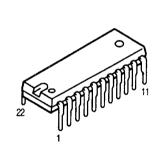
| Pin<br>No. | Symbol   | 1/0 | Logic | Initial<br>Setting | Function  |
|------------|----------|-----|-------|--------------------|---|
| 40         | 5G       | 0   | _     |                    | FL tube control output for 5G.                    |
| 41         | 6G       | 0   | _     |                    | FL Tube control output for 6G.                    |
| 42         | 7G       | 0   | _     |                    | FL Tube control output for 7G.                    |
| 43         | 8G       | 0   | _     | _                  | FL Tube control output for 8G.                    |
| 44         | 9G       | 0   | _     | _                  | FL Tube control output for 9G.                    |
| 45         | 10G      | 0   |       | _                  | FL Tube control output for 10G.                   |
| 46         | 11G      | 0   | _     | _                  | FL Tube control output for 11G.                   |
| 47         | 12G      | 0   | _     | _                  | FL Tube control output for 12G.                   |
| 48         | 13G      | 0   | _     | _                  | FL Tube control output for 13G.                   |
| 49         | 14G      | 0   |       | _                  | FL Tube control output for 14G.                   |
| 50         | S0 (a)   | 0   | _     | _                  | FL Tube control output for P(a).                  |
| 51         | S1 (b)   | 0   | -     | _                  | FL Tube control output for P(b).                  |
| 52         | S2 (c)   | 0   | _     | _                  | FL Tube control output for P(c).                  |
| 53         | S3 (d)   | 0   | _     | _                  | FL Tube control output for P(d).                  |
| 54         | S4 (e)   | 0   | _     | _                  | FL Tube control output for P(e).                  |
| 55         | S5 (f)   | 0   | -     | _                  | FL Tube control output for P(f).                  |
| 56         | S6 (g)   | 0   | _     | _                  | FL Tube control output for P(g).                  |
| 57         | S7 (h)   | 0   |       |                    | FL Tube control output for P(h).                  |
| 58         | S8 (j)   | 0   |       | -                  | FL Tube control output for P(j).                  |
| 59         | S9 (k)   | 0   | _     | _                  | FL Tube control output for P(k).                  |
| 60         | S10 (m)  | 0   | _     | _                  | FL Tube control output for P(m).                  |
| 61         | S11 (n)  | 0   | _     | _                  | FL Tube control output for p(n).                  |
| 62         | S12 (p)  | 0   | _     | -                  | FL Tube control output for P(p).                  |
| 63         | S13 (q)  | 0   | _     | _                  | FL Tube control output for P(q).                  |
| 64         | S14 (r)  | 0   | _     | -                  | FL Tube control output for P(r).                  |
| 65         | S15 (s)  | 0   |       | _                  | FL Tube control output for P(s).                  |
| 66         | Vkk      | PW  | _     | _                  | -15V  |
| 67         |          |     |       |                    |   |
| ₹          | GND      | 1   |       | -                  | GND   |
| 70         |          |     |       |                    |   |
| 71         | VA       | 0   | L     | н                  | Video In/Out control ("L" = at selection) BV4066. |
| 72         | VB       | 0   | L     | н                  | Video In/Out control ("L" = at selection) BV4066. |
| 73         | K1       | 1   | _     | _                  | Key input (A/D conversion input).                 |
| 74         | K2       | ı   | _     | _                  | Key input (A/D conversion input).                 |
| 75         | КЗ       | 1   | _     | -                  | Key input (A/D conversion input).                 |
| 76         | K4       | 1   |       | _                  | Key input (A/D conversion input).                 |
| 77         | VER      | 1   |       | _                  | Forwarding country setting.                       |
| 78         | VER      | -   |       | _                  | Specification setting.                            |
| 79         | MUTE (T) | 0   | н     | Н                  | MUTE output ("H" = MUTE).                         |
| 80         | GND      | 1   |       |                    | GND   |

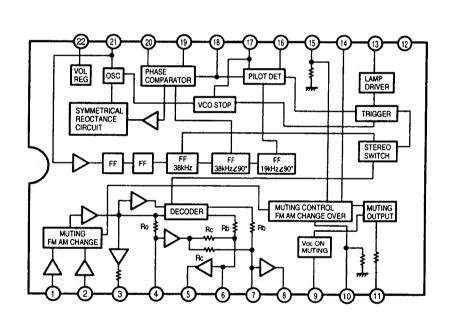
LA1265 (S) (IC001)





# LA3401 (IC002)

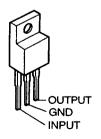




# LM7001 (IC003)

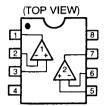
хоит 🗓 16 Vss XIN 2 15 PD2 CE 3 14 PD1 13 VD02 CL 4 DATA 5 12 V<sub>DO</sub>1 SYC 6 11 FM IN BO 1 🗾 10 AM IN 9 BO 3 BO 2 8

KIA7812PI (IC004) KIA7806PI (IC401)



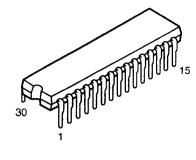
# **BA4558 (IC101)**

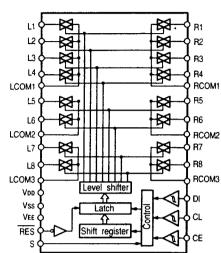




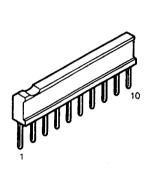
1: A Output 2: A -Input 3: A +Input 4: V -5: B +Input 6: B -Input 7: B Output 8: V +

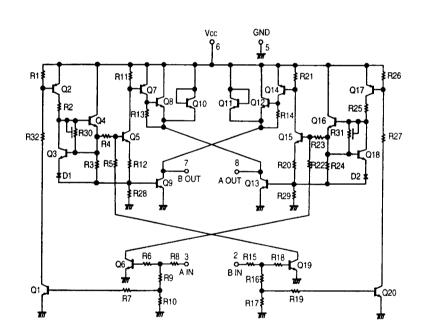
# LA78211 (IC102)





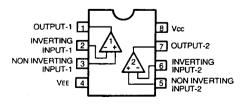
**BA6208S (IC201)** 



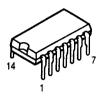


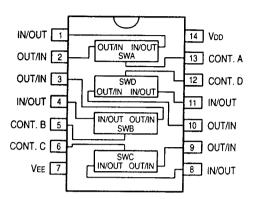
# BA15218 (IC301)



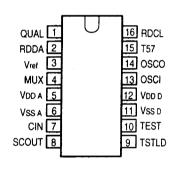


# BU4066BC (IC601)





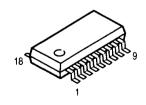
# SAA6579T (IC651)

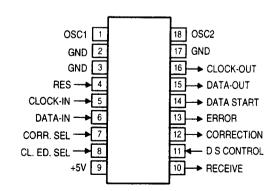


# **SAA6579T Terminal Function**

| Pin No. | Symbol        | Function                                   |
|---------|---------------|--|
| 1       | QUAL          | Quality indication output.                 |
| 2       | RDDA          | RDS data output.                           |
| 3       | Vref          | Reference voltage output (0.5 VDD A).      |
| 4       | MUX           | Multiplex signal input.                    |
| 5       | VDD A         | +5V power supply for analog part.          |
| 6       | Vss a         | Ground for analog part (0V).               |
| 7       | CIN           | Subcarrier input to comparator.            |
| 8       | SCOUT         | Subcarrier ouput of reconstruction filter. |
| 9       | TSTLD         | Test control.                              |
| 10      | TEST          | Test enable input.                         |
| 11      | Vss d         | Ground for digital part (0V).              |
| 12      | <b>V</b> DD D | +5V power supply for digital part.         |
| 13      | OSCI          | Oscillator input.                          |
| 14      | osco          | Oscillator output.                         |
| 15      | T57           | 57kHz clock signal output.                 |
| 16      | RDCL          | RDS clock output.                          |

# LC7074M (IC652)



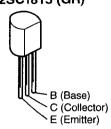


# TRANSISTORS

2SA988 (E/F) 2SC945P 2SC1815 (Y)

2SC1841 (E/F) 2SA1015 (GR)

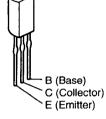
2SC1815 (GR)

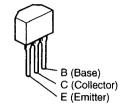


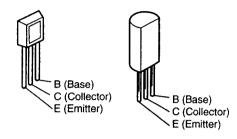
2SB647A (C)

2SA933S (S) 2SC1740S (E) 2SC1740S (S) 2SC2058S (Q) 2SB1328 (P) 2SD2004 (P) HIT5610 (C)



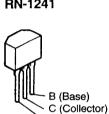


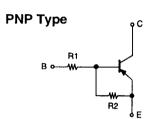




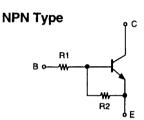
2SK365 (BL/GR)







|          | R1      | R2      |
|----------|---------|---------|
| DTA114ES | 10 kohm | 10 kohm |

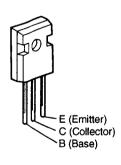


|          | R1       | R2       |
|----------|----------|----------|
| DTC143ES | 4.7 kohm | 4.7 kohm |
| DTC144ES | 47 kohm  | 47 kohm  |
| DTC144TS | 47 kohm  | _        |
| DTC323TS | 2.2 kohm | _        |
| RN1241   | 5.6 kohm |          |

2SA1633 (E/F) 2SC4278 (E/F)

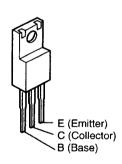
S (Source) G (Gate)

D (Drain)

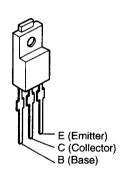




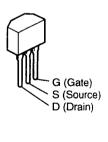
E (Emitter)



2SD2061



2SK161



# • DIODES & LED

IN4148

IN4002

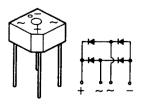
HZ27-04 HZ7B1 HZ3C2 HZ7C3 HZ6C2 HZ9A3



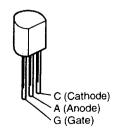




**S4VB20** 



SFOR1A42

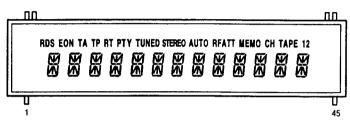


# SBX1910-52 (RM701)

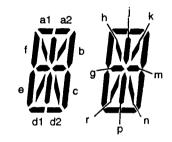


- 1. Vcc
- 2. Output 3. GND
- 4. Case Fin 5. Case Fin

# FLD (14BT48GK)



b c d e h RDS EON TA TP RT PTY TUNED STEREO AUTO RFATT MEMO CH TAPE 12 巡 窓 13G 12G 11G 10G 9G



| PIN CONNECTION | ı |
|----------------|---|
|----------------|---|

|   | Pin No.    | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19 | 20 | 21    | 22 | 23 | 24 | 25 | 26 | 27 | 28   | 29  | 30  |
|---|------------|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|----|----|-------|----|----|----|----|----|----|------|-----|-----|
|   | Connection | F1 | F1 | NP | NP | NC | P16 | P15 | P14 | P13 | P12 | P11 | P10 | P9 | P8 | P7    | P6 | P5 | P4 | Р3 | P2 | P1 | 14 G | 13G | 12G |
| ī |            | _  | _  |    |    |    |    |    |    |    | _  | _  |     |     | =   | =   |     |     | 41. |    | _  | ***** |    |    |    |    |    |    |      |     |     |

| Pin No.    | 31  | 32  | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
|------------|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Connection | 11G | 10G | 9G | 8G | 7G | 6G | 5G | 4G | 3G | 2G | 1G | NΡ | NΡ | F2 | F2 |

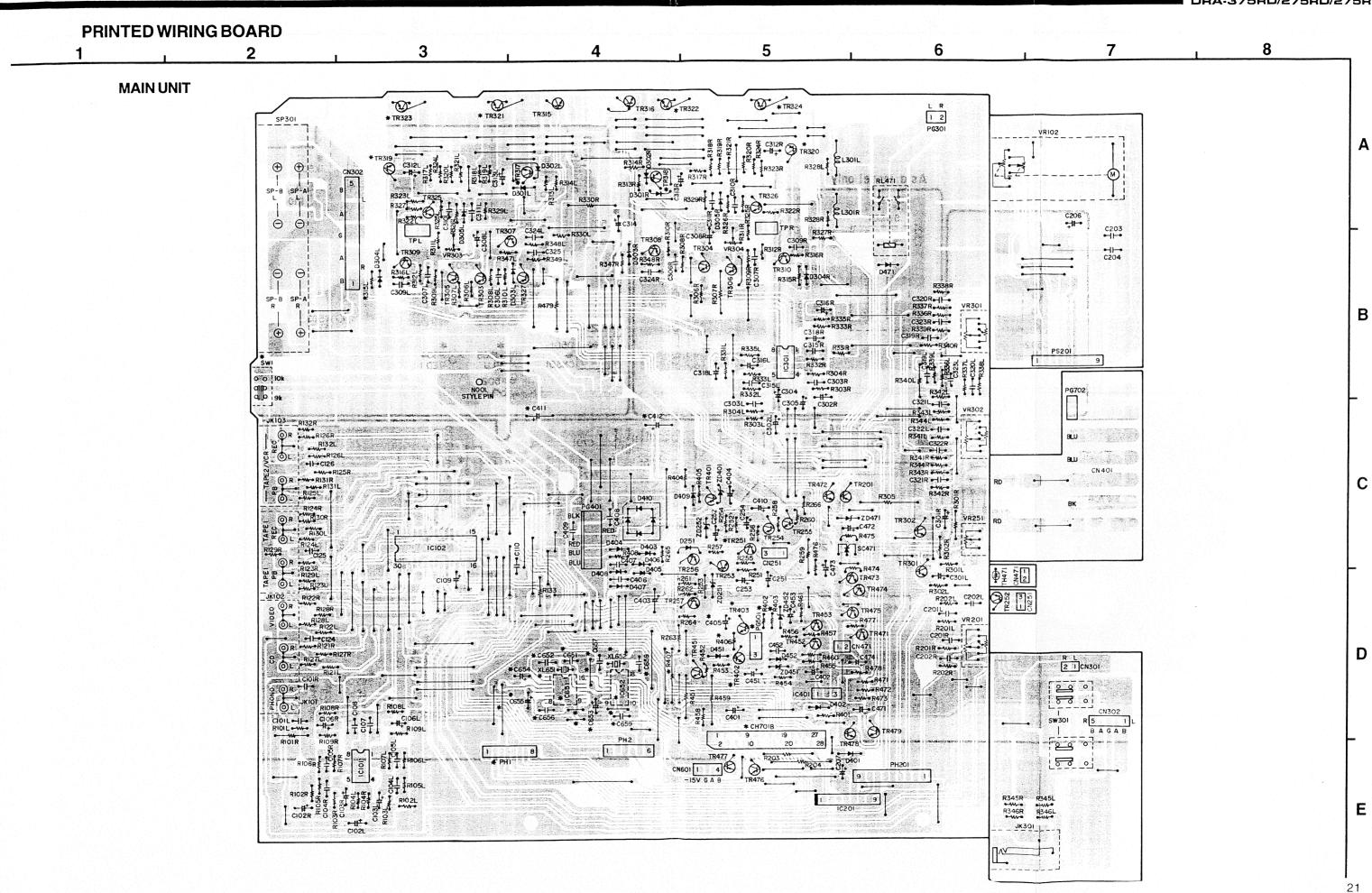
1) F1, F2 ---2) NP------3) NC-----

--- No pin --- No connection

4) DL ------5) 1G-14G ------ Datum line --- Gird

# **ANODE CONNECTION**

|            |        |     |     |            |     | _          |    |    |    |    |    |    |    |    |
|------------|--------|-----|-----|------------|-----|------------|----|----|----|----|----|----|----|----|
|            | 14G    | 13G | 12G | 11G        | 10G | 9G         | 8G | 7G | 6G | 5G | 4G | 3G | 2G | 1G |
| P1         | RDS    | a1  | a1  | a1         | a1  | a1         | a1 | a1 | a1 | a1 | a1 | a1 | a1 | a1 |
| P2         | EON    | a2  | a2  | <b>a</b> 2 | a2  | <b>a</b> 2 | a2 |
| Р3         | TA     | b   | b   | b          | b   | b          | b  | b  | b  | b  | b  | b  | b  | b  |
| ₽4         | TP     | С   | С   | С          | С   | С          | С  | С  | С  | С  | С  | С  | С  | С  |
| P5         | RT     | d2  | d2  | d2         | d2  | d2         | d2 | d2 | d2 | ď2 | d2 | d2 | d2 | d2 |
| P6         | PTY    | d1  | d1  | d1         | d1  | d1         | d1 | d1 | d1 | d1 | d1 | d1 | d1 | d1 |
| <b>P</b> 7 | TUNED  | е   | е   | e          | е   | е          | е  | е  | е  | е  | е  | е  | е  | е  |
| P8         | STEREO | f   | f   | f          | f   | f          | 1  | f  | f  | f  | 1  | f  | 1  | ſ  |
| P9         | AUTO   | j   | j   | j          | j   | j          | j  | j  | j  | j  | j  | j  | j  | j  |
| P10        | RFATT  | k   | k   | k          | k   | k          | k  | k  | k  | k  | k  | k  | k  | k  |
| P11        | МЕМО   | m   | m   | m          | m   | m          | Э  | m  | Э  | m  | m  | m  | m  | æ  |
| P12        | СН     | n   | ก   | n          | n   | n          | J  | n  | n  | n  | n  | ภ  | n  | n  |
| P13        | TAPE   | р   | р   | р          | р   | р          | р  | р  | р  | р  | р  | р  | р  | р  |
| P14        | 1      | r   | r   | ı          | r   | ſ          | r  | r  | r  | r  | r  | ſ  | r  | r  |
| P15        | 2      | g   | 9   | g          | g   | g          | g  | g  | g  | g  | g  | g  | g  | g  |
| P16        | [      | h   | h   | h          | h   | h          | h  | h  | h  | h  | h  | h  | h  | h  |

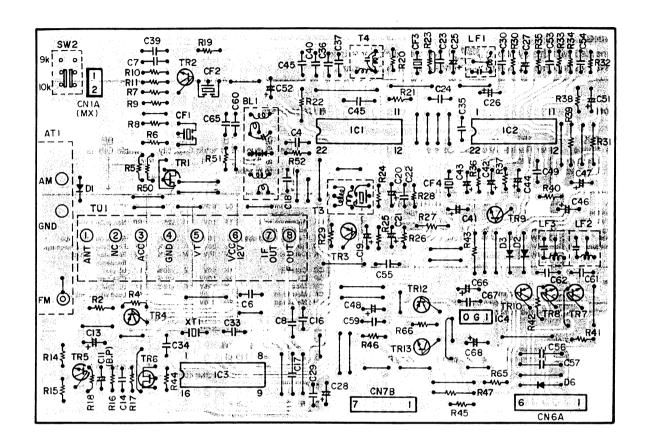


8

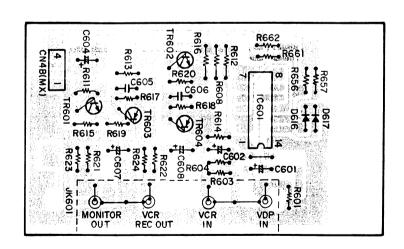
I DRA-375RD/275RD/275R

1 1 2 1 3 1 4

# **TUNER UNIT**



# **VIDEO JACK UNIT**



23

E

В

C

D

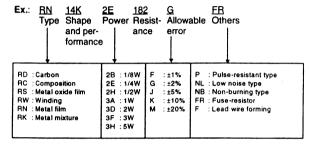
# **NOTE FOR PARTS LIST**

- Part indicated with the mark "O" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

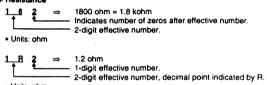
### WARNING

Parts marked with this symbol A have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

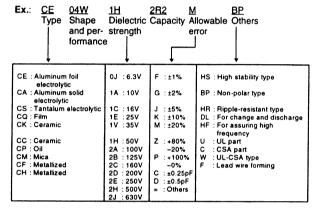
### Resistors



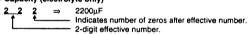
### \* Resistance



### Capacitors

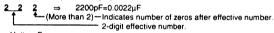


### \* Capacity (electrolyte only)



• Units: μF.

### \* Capacity (except electrolyte)



• Units: pF.

Units: pF.

When the dielectric strength is indicated in AC, "AC" is included after the dieelectric strength value.

# PRINTED WIRING BOARD PARTS LIST MAIN UNIT

| Ref. No.       | Part No.      | Part Name                                   | Remarks              | Ref. No.         | Part No.     | Part Name  | Remarks          |
|----------------|---------------|---|----------------------|------------------|--------------|--|------------------|
|                | DUCTORS G     |   |                      | TR471~473        | <del></del>  | Transistor 2SC1740S (S)                          |                  |
| IC101          | 263 0322 004  | T T   |                      | TR474            | 1            | Transistor 2SA933 (S)                            |                  |
| IC102          | 9L2 3016 92W  |   |                      | TR475            | 273 0303 910 | Transistor 2SC1740S (S)                          |                  |
| 10102          | 362 3010 3211 | 10 20/02//                                  |                      | TR476,477        | 1            | Transistor DTA114ES                              |                  |
| IC201          | 263 0927 001  | IC BA6208S                                  |                      | TR478,479        | 269 0040 009 | Transistor DTC144ES                              |                  |
| 10201          | 200 0027 007  | 10 27102000                                 |                      |                  |              |  |                  |
| IC301          | 263 0565 007  | IC BA15218                                  |                      | D251             | 276 0375 002 | Diode 1N4148 or 1N4531                           |                  |
|                |               |   |                      |                  |              |  |                  |
| IC401          | 9LC P024 12   | IC KIA7806PI                                |                      | D301L,301R       | 276 0375 002 | Diode 1N4148 or 1N4531                           |                  |
|                |               |   |                      | D302L,302R       | 276 0375 002 | Diode 1N4148 or 1N4531                           |                  |
| IC651          | 262 1872 000  | IC SAA6579T                                 | (DRA-375)            |                  | 1            | Diode 1N4148 or 1N4531                           |                  |
|                |               |   | Except Asia model    | l <b>l</b>       |              | Diode 1N4148 or 1N4531                           |                  |
| IC651          | 262 1872 000  | IC SAA6579T                                 | (DRA-275)            | D305L,305R       | 276 0375 002 | Diode 1N4148 or 1N4531                           |                  |
|                |               |   | Europe and U.K.      | D.101            | 070 0075 000 | Di- d- 4N4440 4N4504                             |                  |
|                |               |   | models               | D401             |              | Diode 1N4148 or 1N4531                           |                  |
| IC652          | 9LC K044 71   | IC LC7074M                                  | (DRA-375)Except Asia | D402~408         |              | Diode 1N4002                                     |                  |
|                |               |   | model                | D409             | 1            | Diode 1N4148 or 1N4531                           |                  |
| IC652          | 9LC K044 71   | IC LC7074M                                  | (DRA-275)            | D410             |              | Diode S4VB20                                     |                  |
|                |               |   | Europe and U.K.      | D451,452<br>D471 | 1            | Diode 1N4148 or 1N4531<br>Diode 1N4148 or 1N4531 |                  |
|                |               |   | models               | 0471             | 276 0373 002 | Diode IN4146 of IN4551                           |                  |
| TDOO           | 000 0000 004  | Transister DTA142EC                         |                      | ZD251,252        | 276 0303 003 | Zenar diode HZ6C2                                | 6V               |
| TR201          | 9L2 3184 33   | Transistor DTA143ES Transistor 2SD2061F     | (DRA-375)            | 20201,202        | 270 0000 000 | Zenar diode 112002                               | ••               |
| TR251<br>TR251 |               | Transistor 2SD2001P                         | (DRA-275)            | ZD401            | 9L2 3321 61M | Zenar diode HZ27-04                              | 27V              |
| TR252          |               | Transistor 2SB1655E                         | (DIA 275)            | ZD451            |              | Zenar diode HZ3C2                                | 3.3V             |
| TR253          |               | Transistor 2SC1740S (E)                     |                      | ZD452            |              | Zenar diode HZ7B1                                | 6.8V             |
| TR254          |               | Transistor 2SA933S (S)                      |                      | ZD471            | 276 0051 083 | Zenar diode HZ7C3                                | 7V               |
| TR255          |               | Transistor 2SC1841 (E/F)                    |                      |                  |              |  |                  |
| TR256          |               | Transistor 2SA988 (E/F)                     |                      | SC471            | 9LC J001 81  | Thyristor SF0R3G42                               |                  |
| TR257          | 273 0388 906  | Transistor 2SC1740S (E)                     |                      | 1                |              |  |                  |
|                |               |   |                      | TH471            | 9LC J001 51  | Thermister                                       |                  |
| TR301,302      | 269 0107 900  | Transistor RN1241                           |                      | 1                |              |  |                  |
| TR303,304      | 273 0235 020  | Transistor 2SC1841 (E/F)                    |                      |                  |              |  |                  |
| TR305~308      | 271 0131 021  | Transistor 2SA988 (E/F)                     |                      |                  |              |  |                  |
| TR309,310      | 273 0235 020  | Transistor 2SC1841 (E/F)                    |                      | RESISTOR         | S GROUP (    | Not included Carbon F                            | ilm ± 5% 1/4W)   |
| TR315,316      | 9L2 3294 53T  | Transistor 2SC945P                          |                      | R265,266         | ·            | Carbon film 4.7ohm 1/4W                          | RD14B2E4R7JNB    |
| TR317,318      | 274 0151 000  | Transistor 2SD2004 (P)                      | (DRA-375)            | 11200,200        | 241 2007 040 | 0410017 111111 4.7 011111 17477                  | 1101402241110110 |
| TR317,381      | 274 0060 007  | Transistor 2SD667A (C)                      | (DRA-275)            | R315L.315R       | 241 2369 065 | Carbon film 620ohm 1/4W                          | RD14B2E621JNB    |
| TR319,320      | 272 0107 003  | Transistor 2SB1328 (P)                      | (DRA-375)            |                  |              | Carbon film 150ohm 1/4W                          | RD14B2E151JNB    |
| TR319,320      |               | Transistor 2SB647A (C)                      | (DRA-275)            | B                |              | Carbon film 220ohm 1/4W                          | RD14B2E221JNB    |
| TR321,322      |               | Transistor 2SC4278 (E/F)                    | (DRA-375)            |                  |              | Meta oxide 0.22ohm 1W                            | RS14B3AR22JNB    |
| TR321,322      |               | Transistor 2SC3853                          | (DRA-275)            | R319L,319R       | 9LA T010 12R | Meta oxide 0.22ohm 1W                            | RS14B3AR22JNB    |
| TR323,324      |               | Transistor 2SA1633 (E/F)                    | (DRA-375)            | R320L,320R       | 9LA T010 12R | Meta oxide 0.22ohm 1W                            | RS14B3AR22JNB    |
| TR323,324      |               | Transistor 2SA1489                          | (DRA-275)            | R321L,321R       | 9LA T010 12R | Meta oxide 0.22ohm 1W                            | RS14B3AR22JNB    |
| TR325,326      | 1             | Transistor 2SC1841 (E/F)                    |                      | R324L,324R       | 241 2321 003 | Carbon film 1kohm 1/4W                           | RD14B2E102JNB    |
| TR327          | 2/1 0131 021  | Transistor 2SA988 (E/F)                     |                      | R325L,325R       | 241 2321 003 | Carbon film 1kohm 1/4W                           | RD14B2E102JNB    |
| TD464          | 070 0050 005  | T   |                      | R329L,329R       | 241 2387 940 | Carbon film 4.7ohm 1/4W                          | RD14B2E4R7JNB    |
| TR401          |               | Transistor 2SB647A (C)                      | (DDA 275)            | R345L,345R       | 244 0032 005 | Metal oxide 180ohm/1W                            | RS14B3A181JNB    |
| ' I            |               | Transistor 2SC1740S (S)                     | (DRA-375)            | R346L,346R       | 244 0032 005 | Metal oxide 180ohm/1W                            | RS14B3A181JNB    |
| TR451          | 1             | Transistor 2SC1740S (E)                     |                      | R347L,347R       | 241 2369 065 | Carbon film 620ohm 1/4W                          | RD14B2E621JNB    |
| TR452<br>TR453 |               | Transistor DTC143ES Transistor 2SC1740S (E) |                      | R348L,348R       | 241 2321 074 | Carbon film 150ohm 1/4W                          | RD14B2E151JNB    |
| 111400         | 213 0300 900  | 11a11313101 230 17403 (E)                   |                      |                  |              |  |                  |

| Ref. No.   | Part No.     | Part Name                 | Remarks       | Ref. No.   | Part No.            | Part Name               | Remarks                |
|------------|--------------|---------------------------|---------------|------------|---------------------|-------------------------|------------------------|
| R401       | 241 2387 940 | Carbon film 4.7ohm 1/4W   | RD14B2E4R7JNB | C319L,319R | 255 1077 001        | Film 0.027µF/50V        | CQ93M1H273K            |
| R403       | 241 2321 074 | Carbon film 150ohm 1/4W   | RD14B2E151JNB | C320L,320R | 255 1085 006        | Film 0.12µF/50V         | CQ93M1H124K            |
|            |              |                           | (DRA-375)     | C321L,321R | 255 1258 079        | Film 0.01µF/50V         | CQ93M1H103J            |
| R404       | 241 2322 031 | Carbon film 100ohm 1/4W   | RD14B2E101JNB | C322L,322R | 255 1120 026        | Film 0.0015µF/50V       | CQ93M1H152J            |
| R471       | 244 0042 008 | Metal oxide 1.2kohm/1W    | RS14B3A122JNB | C323L,323R | 253 1055 069        | Ceramic 100pF/50V       | CC45SL1H101J           |
| R473       | 244 0049 001 | Metal oxide 4.7kohm/1W    | RS14B3A472JNB | C324L,324R | 255 1084 007        | Film 0.1µF/50V          | CQ93M1H104J            |
| R408       | 241 2322 060 | Carbon film 10hm 1/4W     | RD14B2E010JNB | C325       | 255 1258 079        | Film 0.01µF/50V         | CQ93M1H103J            |
|            |              |                           |               |            |                     |                         |                        |
| VR102      | 9L0 1579 02  | Variable 100kohm          | VOL           | C401       | 9L0 2845 82         | Electrolytic 8.2µF/5.5V |                        |
| VR201      | 9LA Y001 84  | Variable 100kohm          | LOUD          | C402       | 254 4256 907        | Electrolytic 10µF/25V   | CE04W1E100M            |
| VR251      | 9LA Y001 87  | Variable 250kohm          | BAL           | C403       | 254 4257 003        | Electrolytic 3300µF/25V | CE04W1E332M            |
|            |              |                           |               | C404       | 254 4260 948        | Electrolytic 1µF/50V    | CE04W1H010M            |
| VR301      | 9LA Y001 85  | Variable 100kohm          | BASS          | C405       | <b>254 4256 907</b> | Electrolytic 10µF/25V   | CE04W1E100M            |
| VR302      | 9LA Y001 86  | Variable 50kohm           | TREBLE        | C406,407   | 255 1258 079        | Film 0.01μF/50V         | CQ93M1H103J            |
| VR303,304  | 9L0 1603 23  | Semi fixed 5kohm          |               | C408,409   | <b>9W0</b> 2445 09  | Ceramic 4700pF/500V     |                        |
|            |              |                           |               | C410       | 254 4260 948        | Electrolytic 1µF/50V    | CE04W1H010M            |
| CAPACITO   | RS GROUP     |                           |               | C411,412   | 9LA L004 72         | Electrolytic 8200µF/63V | (DRA-375)              |
|            | 253 1179 026 | Ceramic 150pF/50V         | CK45B1H151K   | C411,412   | 9LA L004 71         | Electrolytic 8200µF/50V | (DRA-275)              |
|            | 254 4256 907 | Electrolytic 10µF/25V     | CE04W1E100M   | C451       | 254 4260 074        | Electrolytic 4.7µF/50V  | CE04W1H4R7M            |
| ļ          | 254 4254 022 | Electrolytic 33μF/16V     | CE04W1C330M   | C452       | 9L0 8901 01R        | Ceramic 0.01µF/16V      | CK45B1C103J            |
| · 1        | 255 1069 006 | Film 0.0056µF/50V         | CQ93M1H562K   | C453       | 254 4260 948        | Electrolytic 1µF/50V    | CE04W1H010M            |
|            | 255 1120 026 | Film 0.0036µF/50V         | CQ93M1H152J   | C471       |                     | Electrolytic 10µF/50V   | CE04W1H100M            |
|            | 254 4256 907 | Electrolytic 10μF/25V     | CE04W1E100M   | C472       | 254 4260 993        | Electrolytic 22µF/50V   | CE04W1H220M            |
| C107,108   | 253 1025 002 | Ceramic 0.022µF/50V       | CK45F1H223Z   | C473       | 254 4250 042        | Electrolytic 330µF/6.3V | CE04W0J331M            |
| C109       | 254 4256 059 | Electrolytic 220µF/25V    | CE04W1E221M   | C474       | 254 4254 938        | Electrolytic 47µF/16V   | CE04W1C470M            |
| C110       | 1            | Ceramic 0.022µF/50V       | CK45F1H223Z   |            |                     |                         |                        |
| C124~126   | I            | Ceramic 0.022µF/50V       | CK45F1H223Z   | C651,652   | 253 3131 907        | Ceramic 27pF/50V        | CC45CH1H270J           |
|            | 200 1020 002 | osiaimo siozzari root     | 511161111252  |            |                     |                         | (DRA-375)              |
| C201L,201R | 255 1076 002 | Film 0.022µF/50V          | CQ93M1H223K   |            |                     |                         | Except Asia model      |
| 1          | ı            | Ceramic 560pF/50V         | CK45B1H561K   |            |                     |                         | (DRA-275)              |
|            | l            | Ceramic 0.022µF/50V       | CQ93M1H223K   |            |                     |                         | Europe and U.K. models |
| 1          | ı            | Electrolytic 4.7µF/50V BP | CE04D1H4R7MBP | C653~655   | 254 4250 013        | Electrolytic 47µF/6.3V  | CE04W0J470M            |
| 1          | ł            | Electrolytic 1µF/50V      | CE04W1H010M   |            |                     |                         | (DRA-375)              |
| 1          | 254 4256 033 | Electrolytic 47μF/25V     | CE04W1E470M   |            |                     |                         | Except Asia model      |
| f          | - 1          | Electrolytic 10µF/25V     | CE04W1E100M   |            |                     |                         | (DRA-275)              |
|            | 1            | •                         |               |            |                     |                         | Europe and U.K. models |
| C301L,301R | 254 4260 948 | Electrolytic 1µF/50V      | CE04W1H010M   | C656       | 253 1055 014        | Ceramic 560pF/50V       | CK45B1H561K            |
| . 1        | l l          | Electrolytic 0.33µF/50V   | CE04W1HR33M   |            |                     |                         | (DRA-375)              |
|            | 1            | Ceramic 100pF/50V         | CC45SL1H101J  |            |                     |                         | Except Asia model      |
|            | 1            | Electrolytic 1µF/50V      | CE04W1H010M   |            |                     |                         | (DRA-275)              |
|            | i            | Ceramic 10pF/50V          | CC45SL1H100D  | 0057.050   | 050 0011 555        | 0                       | Europe and U.K. models |
|            |              | Ceramic 10pF/50V          | CC45SL1H100D  | C657,658   | 253 3614 000        | Ceramic 30pF/50V        | CC45SL1H300J           |
|            | 1            | Electrolytic 1µF/50V      | CE04W1H010M   |            |                     |                         | (DRA-375)Except Asia   |
|            | 1            | Film 0.1µF/50V            | CQ93M1H104K   | 1          |                     |                         | model                  |
| 1          | 1            | Film 0.022μF/50V          | CQ93M1H223K   |            |                     |                         | (DRA-275)              |
|            | 1            | Film 0.1µF/50V            | CQ93M1H104K   | 0050       | 01 0 0001 015       | 0                       | Europe and U.K. models |
|            | i i          | Electrolytic 4.7µF/63V    | CE04W1J4R7M   | C659       | 9L0 8901 01R        | Ceramic 0.01µF/16V      | CK45B1C103J            |
|            | i            | Electrolytic 4.7µF/63V    | CE04W1J4R7M   | 1          |                     |                         | (DRA-375)Except Asia   |
| i          |              | Electrolytic 1µF/50V      | CE04W1H010M   |            |                     |                         | model                  |
| 1          | 1            | Ceramic 10pF/50V          | CC45SL1H100D  |            |                     |                         | (DRA-275)              |
|            | 1            | Electrolytic 33µF/16V     | CE04W1C330M   |            |                     |                         | Europe and U.K. models |
| - 1        | i            | Electrolytic 1µF/50V      | CE04W1H010M   | 1          |                     |                         |                        |

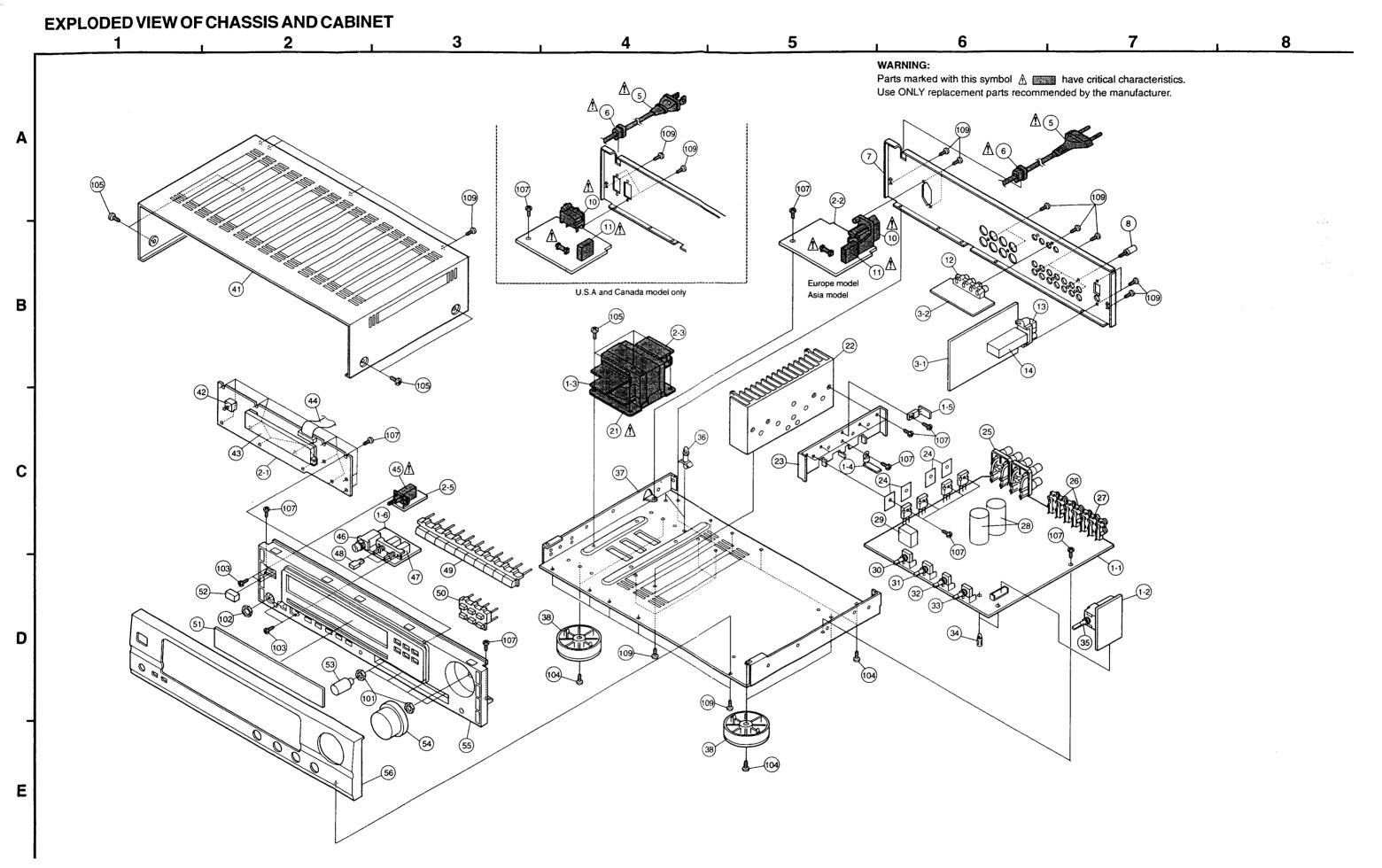
# **TUNER UNIT**

| Ref. No.   | Part No.      | Part Name                      | lame Remarks            |             | ٦٢   | Ref. No.               | Remarks      |   |                        |
|------------|---------------|--------------------------------|-------------------------|-------------|------|------------------------|--------------|---|------------------------|
| C661       |               | Ceramic 0.01μF/16V CK45B1C103J |                         |             | 11   | SEMICON                | 1            |   |                        |
| C001       | 9F0 9901 01H  | Ceramic U.UTAT/10V             | (DRA-375)Exce           | nt Acir     | ال   | IC001                  | 263 0891 001 | T                                       | T                      |
|            |               |                                | model                   | pi Asia     | "    | IC001                  | 263 0439 007 | 1                                       |                        |
|            |               |                                | (DRA-275)               |             | Ш    | IC002                  | 262 0719 009 |   |                        |
|            |               |                                | Europe and U.K. m       | nodels      | Ш    | IC004                  | i            | IC KIA7812PI                            |                        |
|            |               |                                | 25/5/0 2/10 5/1/1/1     | <del></del> | 41   |                        |              | 101111111111111111111111111111111111111 |                        |
|            | ARTS GROU     | T                              | <sub>T</sub>            | Q'ty        | 41   | IC601                  | 262 1873 009 | IC BU4066BC                             |                        |
| SW001      | 9L2 6225 21   | Slide switch                   | Asia model              |             | П    |                        |              |   |                        |
| SW301      | 9LF E001 81   | Speaker switch                 |                         |             | Ш    | TR001                  | 275 0051 006 | Transistor 2SK161                       |                        |
| DI 474     | 01.0.0440.04  | Delevi (OAV)                   | CD muto                 |             | П    | TR002                  | 273 0434 902 | Transistor 2SC2058S (Q)                 |                        |
| RL471      | 9L2 6413 21   | Relay (24V)                    | SP mute                 |             |      | TR003,004              | 269 0046 003 | Transistor DTA114ES                     |                        |
| XL651      | 9L2 1701 33   | Crystal 4.332MHz               | (DRA-375)               | l           | П    | TR005                  | 273 0198 002 | Transistor 2SC1815 (Y)                  |                        |
| XL031      | 962 1701 33   | Crystal 4.332IVII 12           | Except Asia model       |             | Ш    | TR006                  | 275 0053 907 | Transistor 2SK365 (BL/GR)               |                        |
| XL651      | 9L2 1701 33   | Crystal 4.332MHz               | (DRA-275)               |             | П    | TR007,008              | 273 0372 909 | Transistor DTC323TS                     |                        |
| ALOST      | 362 1701 33   | Orystal 4.00Elvil 12           | Europe and U.K. model   |             | Ш    | TR009                  | 269 0079 902 | Transistor DTC144TS                     |                        |
| XL652      | 399 9018 003  | Crystal 4.0MHz                 | (DRA-375)               | 1           | Ш    | TR010                  |              | Transistor DTA114TS                     |                        |
| ALOUL      | 000 00 10 000 | Oryotal 1.00012                | Except Asia model       |             | Ш    | TR011                  | 272 0025 004 | Transistor HIT5610C                     |                        |
| XL652      | 399 9018 003  | Crystal 4.0MHz                 | (DRA-275)               |             | Ш    |                        |              | or 2SB562C                              |                        |
|            |               | .,                             | Europe and U.K. model   | s           | П    | TR012                  | 269 0020 906 | Transistor DTC144ES                     |                        |
|            |               |                                | ·                       |             | Ш    | TDC04 C00              | 070 0005 004 | Tinto-0004045 (OD)                      |                        |
| L301L,301R | 9L2 2273 63   | Trap coil 1.1µH                |                         |             | П    | TR601,602<br>TR603,604 |              | Transistor 2SC1815 (GR)                 | *                      |
|            |               |                                |                         |             | Ш    | 1003,004               | 2/10/00/005  | Transistor 2SA1015 (GR)                 |                        |
| JK101      | 9LE R003 41   | 6P US pin jack                 |                         |             | Ш    | D001~003               | 276 0375 002 | Diode 1N4531 or 1N4148                  |                        |
| JK102,103  | 9LE R003 51   | 4P US pin jack                 |                         |             | П    | D001~003               |              | Diode 1N4001                            |                        |
| JK301      | 9LE Y005 01   | Headphone jack                 |                         |             | П    | D616,617               |              | Diode 1N4531 or 1N4148                  |                        |
| 00004      |               | as                             |                         |             | H    |                        | 1            |   |                        |
| SP301      | 9LE U003 81   | Front SP terminal              |                         |             | lŀ   | CO04                   | ORS GROUP    | Ceramic 12pF/50V                        | CC45SL1H120J           |
| CH701B     | 9LE D007 91   | 24P FEC cable holder           | (DRA-375) Asia model    |             | П    | C004<br>C006           | 1            | Ceramic 12pF/50V                        | CC455L1H1203           |
| OITTOID    | 3LL D007 31   | 241 11 O cable floider         | (DRA-265)               |             | Ш    | C000                   | 233 1174 018 | Ceramic 0.01µF/10V                      | Eorope and U.K. models |
|            |               |                                | U.S.A., Canada and Asia |             | Ш    | C007,008               | 253 1174 018 | Ceramic 0.01µF/16V                      | CC14Y1C103M            |
|            |               |                                | models                  |             | Ш    | C011                   | 1 1          | Electrolytic 1µF/50V BP                 | CE04D1H010MBP          |
| CH701B     | 9LE D007 92   | 25P FFC cable holder           |                         |             | Ш    | C013                   | 1            | Electrolytic 0.1µF/50V                  | CE04W1H0R1M            |
|            |               |                                | U.K. model              |             | Ш    | C014                   | 1 4          | Ceramic 0.022µF/50V                     | CK45F1H223Z            |
| CH701B     | 9LE D007 95   | 28P FFC cable holder           | (DRA-375)               |             | П    | C016                   | 1 1          | Ceramic 100pF/50V                       | CC14B1H101K            |
|            |               |                                | Except Asia model       |             |      | C017,018               | 1            | Ceramic 0.01µF/16V                      | CC14Y1C103M            |
|            |               |                                | (DRA-275)               |             | $\ $ | C019                   | 254 4260 032 | Electrolytic 0.47µF/50V                 | CE04W1HR47M            |
|            |               |                                | Europe model            |             | П    | C020                   | 254 4260 045 | Electrolytic 1µF/50V                    | CE04W1H010M            |
|            |               |                                |                         |             |      | C021                   | 254 4260 087 | Electrolytic 10µF/50V                   | CE04W1H100M            |
|            | 9LM A007 81   | Heat sink bracket              |                         | 1           | Ш    | C022                   | 253 1025 002 | Ceramic 0.022µF/50V                     | CK45F1H223Z            |
|            | 9LM F001 71   | Insulation sheet               |                         | 4           | П    | C023                   | HMA 1000 159 | Ceramic 100pF/50V                       | CC14B1H101K            |
|            | 9L8 6914 10   | Screw 3x10 BH BT               |                         | 6           | П    |                        |              |   | Except Eorope and      |
|            |               |                                |                         |             | Ш    |                        |              |   | U.K. models            |
|            |               |                                |                         |             |      | C024                   |              | Film 0.056µF/50V                        | CQ93M1H563K            |
|            |               |                                |                         |             |      | C025~027               | 1            | Electrolytic 22µF/50V                   | CE04W1H220M            |
|            |               |                                |                         |             |      | C028                   | 1            | Electrolytic 1µF/50V                    | CE04W1H010M            |
|            |               |                                |                         |             |      | C029                   |              | Ceramic 0.01µF/16V                      | CC14Y1C103M            |
|            |               |                                |                         |             | П    | C030                   | 9L0 8900 32M | Ceramic 560pF/50V                       | CC14B1H561K            |
|            |               |                                |                         |             | Ш    | 0001.055               | 054 (000     | <b>5</b> 1                              | Eorope and U.K. models |
|            |               |                                |                         |             |      | C031,032               | 1            | Electrolytic 10µF/50V                   | CE04W1H100M            |
|            |               |                                |                         |             |      | C033,034               | 253 3126 006 | Ceramic 16pF/50V                        | CC45CH1H160J           |
|            |               |                                |                         |             | L    |                        |              |   |                        |

# **DISPLAY UNIT**

| C035   255 1122 008   Film 0.047µF/50V   C0380M1H473J   C036,037   253 1174 018   Ceramic 0.01µF/16V   CC14Y1C103M   C040   254 4256 045   Electrolytic 1µF/50V   CE04W1H010M   C041   254 4256 045   Electrolytic 1µF/50V   CE04W1H010M   C043   254 1496 014   Electrolytic 0.22µF/50V   CE04W1H010M   C043   254 4260 045   Electrolytic 0.22µF/50V   CE04W1H010M   C043   254 4260 045   Electrolytic 0.22µF/50V   CE04W1H010M   C044   254 4260 045   Electrolytic 0.22µF/50V   CE04W1H010M   C045   253 1174 018   Ceramic 0.01µF/16V   CC14Y1C103M   C046   253 1174 018   Ceramic 0.01µF/16V   CE04W1H010M   C053   254 4260 045   Electrolytic 0.22µF/50V   CE04W1H010M   C046   C046   253 1174 018   Ceramic 0.01µF/16V   C046    |           | T =          | T =                                     | Т                      | DISPLAY       | <del></del>   | T                        |                        |
|--|-----------|--------------|---|------------------------|---------------|---------------|--------------------------|------------------------|
| C039   253 1174 018   Ceramic 0.01µF78V   CC14YC103M   CE04W11610M   C   | Ref. No.  | Part No.     | Part Name                               | Remarks                | Ref. No.      | Part No.      | Part Name                | Remarks                |
| C339   |           | 1            |   |                        | SEMICON       | IDUCTORS (    | GROUP                    |                        |
| Codd   | •         | 1            | •                                       |                        | IC701         | 262 2249 001  | IC TMP87CM71F-6348       |                        |
| CO44   |           | 1            |   | 1                      |               |               |                          |                        |
| CO44   |           | 1            | , | 1.                     | TR701         | 269 0020 906  | Transistor DTC114ES      |                        |
| C043   |           |              | 1 .                                     | i                      | 11            |               |                          |                        |
| CO44   224 4280 951   Electroylic 1_pt/F60V   CEAWW14010M   CO46047   224 4280 951   Electroylic 2_pt/F50V   CEAWW14010M   CC48W14010M   CC4   |           |              | , ,                                     | t                      | D501          | 276 0375 002  | Diode 1N4531 or 1N4148   | (DRA-375)              |
| C046,047   254 4269 087   Electrolytic 2/ga/F60V   C049WH2R2M   C049WH2R2M   C059   C049WH2R2M   C049WH2R2M   C059WH2R2M   |           | 1            |   |                        | 11            |               |                          | Except U.K. model      |
| C046,047   254 4260 951   Electrolytic 22µF/50V   CEO4WH14DR2M   CEO4WH1010M   CEO4    |           |              | 1 ' '                                   |                        | D701          | 276 0375 002  | Diode 1N4531 or 1N4148   |                        |
| C048   254 4260 045   Electrolytic 1µF/50V   CC04W1H010M   CC14V1C103M   CE04W1H102M   |           | 1            | '                                       | 1                      |               |               |                          |                        |
| CO49   | ·         | 1            | 1 '                                     |                        | ZD701         | 9W2 3318 23   | Zenar diode HZ9A3        | 9V                     |
| C051   254 4260 951   Electrolytic 2.2µF/50V   CEO4W1H2R2M   C053.054   253 1193 992   Ceramic 330pF/50V   CC14B1H6B1K   Eorope and U.K. models   C14B1H6B1K   Except Ecrope and U.K. models   Except Europe and U.K. mo   |           | 1            | , ,                                     |                        |               |               |                          |                        |
| C052   254 4260 087   Electrolytic 10µF/50V   CF04W1H100M   C14B1H331K   Ecorpe and U.K. models   Ecorpe and U.   |           |              | '                                       |                        | LED701        | 9L2 3984 05   | LED SLR54VC3F            | Red                    |
| C053,054 253 1193 992 Ceramic 330pF/50V CC14B1H331K Ecope and U.K. models C053,054 253 1194 933 Ceramic 680pF/50V CC14B1H31K Except Ecrope and U.K. models C059,060 253 1174 018 Ceramic 0.01µF/16V CC14Y1C103M C061,062 254 4256 033 Electrolytic 100µF/16V CC14Y1C103M C601,062 254 4256 033 Electrolytic 100µF/16V CC14Y1C103M C605,060 9U.9900 05M Ceramic 470pF/16V CC14Y1C103M C605,060 9U.9900 05M Ceramic 470pF/16V CC14Y1C103M C605,060 9U.9900 05M Ceramic 470pF/16V CC14Y1C103M C607,060 9U.9900 05M Ceramic 470pF/16V CC14Y1C103M C703 9U.9900 05M Ceramic 470pF/16V CC14Y1C102M C703 9U.9900 05M Ceramic 470pF/6VV CC14Y1C102M C703 9U.9900 05M Ceramic 470pF/6VV CC14Y1C102M C703 9U.9900 05M Ceramic 470pF/6VV CC14Y1C102M C703 9U.9900 101 Ceramic 0.01µF/16V C702 Electrolytic 100µF/16V C014Y1C102M C703 9U.9900 101 Ceramic 0.01µF/16V C704 254 4250 079 Electrolytic 100µF/10V C704 254 425  |           | 1            | , ,                                     | 1                      | <b>}</b>      |               |                          |                        |
| Co53,054   253 1194 933   Caramic 680pF/50V   CC1481H681K   Except Eorope and U.K. models   CC481H1681K   Except Eorope and U.K. models   CC481H12K   Except Eorope and U.K. models   CC1491C103M      |           | 254 4260 087 | Electrolytic 10µF/50V                   | CE04W1H100M            | RM701         | 9LH N000 31   | Receiving unit           | (SBX1910-52)           |
| C053,054 253 1194 933 Ceramic 680pF/50V CC14B1H681K Except Ecrope and U.K. models C055 253 1101 900 Ceramic 120pF/50V CC45B1H121K Ecope and U.K. models C056,057 253 1174 018 Ceramic 0.01µF/16V C059,060 253 1174 018 Ceramic 0.01µF/16V C054,062 253 1159 961 Ceramic 0.01µF/16V C054,065 253 1174 018 Ceramic 0.01µF/16V C054,065 264 4254 789 Electrolytic 1000µF/16V C054,065 264 4252 079 Electrolytic 1000µF/16V C054,065 264 425 279 Electrolytic 1000µF/16V C054,065 264 264 264 264 264 264 264 264 264 264  | C053,054  | 253 1193 992 | Ceramic 330pF/50V                       | CC14B1H331K            |               |               |                          |                        |
| Except Eorope and U.K. models   C45811421K   C459611421K   C459614136   C45911421K   C459614   C459614   C4596143   C459614136   C45911421K   C459614   C    |           |              |   | <b>1</b> '             | I PERIOTO     | DO ODOUD (    |                          |                        |
| Continue   Continu     | C053,054  | 253 1194 933 | Ceramic 680pF/50V                       | 1                      | <b> </b>      | <del></del>   | <del></del>              | T                      |
| C055   |           |              |   | · I                    | H501          | 9LH 1390 08   | Metal oxide 2.2kohm 1/2W | RS14B2H222JNB          |
| C056,057 253 1174 018 Ceramic 0.01μF/16V C059,060 253 1174 018 Ceramic 0.01μF/16V C14Y1C103M C14Y1C10A T14Y1C103M C14Y1C10A T14Y1C103M C14Y1C10A T14Y1C103M C14Y1C10A T14Y1C103M C14Y1C10A T14Y1C10A T14Y1C1A T   |           |              |   |                        |               |               |                          | '                      |
| Co56,057   253 1174 018   Ceramic 0.01μF/16V   CC14Y1C103M   CC14Y1C102M   CC14Y1C103M   CC14Y1C     | C055      | 253 1101 900 | Ceramic 120pF/50V                       |                        | CAPACIT       | ORS GROUP     | )                        |                        |
| COSS_0.65         253 1174 018         Ceramic 0.01μF/16V         CC14YIC103M         CC14XIC472M         Ecope and U.K. models         CC14XIC472M         Ecope and U.K. models         CC14XIC472M         Ecope and U.K. models         CC14XIC472M         CC702         PLM M1000 150         CC14XIC472M         CC703         PLM B000 101         CC14XIC472M         CC14XIC472M         CC703         PLM B000 101         CC14XIC472M         CC14XIC472M         CC703         PLF B000 11         MIN ANT coil         MIN Tansformer         MIN Tansformer         MIN Tansformer         MIN Tansformer         MIN Tansformer         SW701 -707   |           |              |   | 1 '                    | <b>∆</b> C501 | 253 8014 702  | Ceramic 0.01µF/400V      | CK45F2GAC103MC         |
| C061,062 253 1174 018 Ceramic 0.01µF/16V Ceramic 4700pF/16V Ecrope and U.K. models Co05,060 253 1174 018 Ceramic 0.01µF/16V Ceramic 470pF/16V Ecrope and U.K. models CF002 261 0036 900 Ceramic filter CF002 261 0036 907 Ceramic filter CF002 261 0036 907 Ceramic filter CF003 9L2 1363 13 LF002,003 9L2 1363 14 LF002,003 9L2 1363 14 JF002,003 9L2 1363 9L2  | -         | 1            | •                                       | 1                      |               |               |                          |                        |
| C014X (C472M) C065   |           | 1            | ·                                       | 1                      |               |               |                          | Except U.K. model      |
| Coops and U.K. models   Coramic 0.01μF/16V   Coramic 0.01μF/16V   Cot4YLC103M   Co     | C061,062  | 253 1159 961 | Ceramic 4700pF/16V                      | 1                      | <b>∆</b> C502 | 253 8014 702  | Ceramic 0.01uF/400V      | CK45F2GAC103MC         |
| C601,602 254 4256 033 Electrolytic 47µF/25V CE04W1E470M CE04W1C102M CF005,606 254 4254 789 Electrolytic 1000µF/16V CE04W1C102M CF007,608 254 4252 079 Electrolytic 1000µF/10V CE04W1A102M CC14SL1H4R7K CF007,608 254 4252 079 Electrolytic 1000µF/10V CE04W1A102M CC14SL1H4R7K CF007,608 254 4252 079 Electrolytic 1000µF/10V CE04W1A102M CC14SL1H4R7K CF007,608 254 4252 079 Electrolytic 1000µF/10V CE04W1A102M CF007 CF001 254 4252 079 Electrolytic 1000µF/10V CE04W1A102M CF004 254 4213 034 Electrolytic 100µF/6.3V CE04W0J101M CF004 254 4213 034 Electrolytic 100µF/6.3V CF004 2  |           |              |   | 1 '                    |               |               |                          |                        |
| C601,602         254 4256 033         Electrolytic 1000μF/16V         CEO4W1E470M         CEO4W1E470M         C702         HMA 1000 158         Ceramic 100pF/50V         CC14B1H101K           C605,606         9 0.0 8900 05M         Ceramic 4.7pF/50V         CC14SL1H4R7K         CC703         9L0 8901 01         Ceramic 0.01μF/16V         CE04W0J101M           OTHER PARTS GROUP           BJ001         9 LB H005 31         MW ANT coil         AM IF transformer         SW501         SW501         Asia model           CF001         261 0054 007         Ceramic filter         Europe and U.K. models         Except Europe and U.K. models         SW701-707         9L2 6396 82R         Tact switch         (DRA-375)Asia (DRA-375)           CF002         261 0054 007         Ceramic filter         Europe and U.K. models         Except Europe and U.K. models         SW709         9L2 6396 82R         Tact switch         (DRA-375) Except Asia model           CF003         9LB P005 01         Ceramic filter         Europe and U.K. models         SW710-715         9L2 6396 82R         Tact switch         Europe and U.K. models           LF001         9L2 1363 13         L.P.F.         Europe and U.K. models         SW710-715         9L2 6396   |           | 1            | •                                       | 1                      | C701          | 9L0 8901 01   | Ceramic 0.01µF/16V       |                        |
| C605,606   C607,608   Su. 9900 05M   Ceramic 4.7pF/50V   CC14SL1H4R7K   CE04W1A102M   C704   254 4213 034   Electrolytic 100μF/6.3V   CE04W0J101M   C704   254 4213 034   Electrolytic 100μF/6.3V   CE04W0J101M   C704      |           |              | • •                                     | 1                      | C702          | HMA 1000 159  | '                        | CC14B1H101K            |
| C605,606   91.0 8900 05M   Ceramic 4.7pF/50V   CC14SL1H4R7K   CE04W1A102M  |           |              | •                                       | 1                      | C703          | 9L0 8901 01   | Ceramic 0.01µF/16V       |                        |
| C607,608         254 4252 079         Electrolytic 1000µF/10V         CE04W1A102M           OTHER PARTS GROUP           BJ001         9LB H005 31         MW ANT coil         AM IF transformer           T004         9L2 1370 33         MW ANT coil         AM IF transformer           CF001         9L2 1701 32         Crystal 7.2MHz           CF001         261 0064 007         Ceramic filter         Europe and U.K. models           CF002         261 0135 907         Ceramic filter         Europe and U.K. models           CF002         261 0136 906         Ceramic filter         Europe and U.K. models           CF003         9LB P005 01         Ceramic filter         Europe and U.K. models           CF004         9LB P004 91         Ceramic filter         Europe and U.K. models           LF001         9L2 1363 13         L.P.F.         Europe and U.K. models           LF002,003         9L2 1363 14         L.P.F.         Europe and U.K. models           AT001         9LE R002 32         AT U.P.F.         Europe and U.K. models           <  |           | i            | •                                       | 1                      | C704          | 254 4213 034  | i .                      | CE04W0J101M            |
| BJ001 9LB H005 31 MW ANT coil T003 9LB J002 51 AM IF transformer T004 9L2 1370 33 FM DET transformer XT001 9L2 1701 32 Crystal 7.2MHz CF001 261 0064 007 Ceramic filter CF001 261 0135 907 Ceramic filter CF002 261 0136 906 CF002 261 0136 906 CF002 261 0136 906 CF003 9LB P005 01 Ceramic filter CF004 9LB P004 91 Ceramic filter LF001 9L2 1363 13 L.P.F. Europe and U.K. models LF002,003 9L2 1363 14 L.P.F. Europe and U.K. models Europe and U.K. models Europe and U.K. models Except Europe and U.K. models Except Europe and U.K. models Except Europe and U.K. models  Except Europe and U.K. models  Except Europe and U.K. models  Except Europe and U.K. models  Except Europe and U.K. models  Except Europe and U.K. models  Furope and U.K. models  Europe a  | C607,608  | 254 4252 079 | Electrolytic 1000μF/10V                 | CE04W1A102M            | l             |               | , .                      |                        |
| BJ001 9LB H005 31 MW ANT coil T003 9LB J002 51 AM IF transformer T004 9L2 1370 33 FM DET transformer XT001 9L2 1701 32 Crystal 7.2MHz CF001 261 0064 007 Ceramic filter CF001 261 0135 907 Ceramic filter CF002 261 0064 007 Ceramic filter CF002 261 0136 906 Ceramic filter CF003 9LB P005 01 Ceramic filter CF004 9LB P005 01 Ceramic filter CF004 9LB P004 91 LP.F. LF001 9L2 1363 13 LF.P.F. LF001 9L2 1363 14 LP.F. LF001 9L2 1363 14 LP.F. JK601 9LE R002 32 AT001 9LE H000 31 Tuner pack  Except Europe and U.K. models Europe and U.K. models  Europe and U.K. model  | OTHER PA  | ARTS GROU    | P                                       |                        | OTHERR        | APTS CROU     | <u> </u>                 |                        |
| T003 9LB J002 51 AM IF transformer T004 9L2 1370 33 FM DET transformer XT001 9L2 1701 32 Crystal 7.2MHz CF001 261 0064 007 CF001 261 0135 907 CF002 261 0136 906 CF002 261 0136 906 CF002 261 0136 906 CF003 9LB P005 01 CF004 9LB P004 91 LF001 9L2 1363 13 LF002,003 9L2 1363 14 LP.F. LP.F. LP.F. LP.F. JK601 9LE R002 32 AT001 9LE H000 31 TU001 9LH H000 31 Tuner pack   AM IF transformer M DET transformer Crystal 7.2MHz Europe and U.K. models Except Europe and U.K. models Except Europe and U.K. models SW709  9L2 6396 82R Tact switch (DRA-375)Asia (DRA-275) Except Europe U.K. models SW709  9L2 6396 82R Tact switch (DRA-375)Except Europe U.K. models SW709  9L2 6396 82R Tact switch (DRA-275) Except Europe U.K. models SW710-715 9L2 6396 82R Tact switch  U.K. models Furope and U.K. models  Europe and U.K. models  Except Europe  U.K. models  Europe and U.K. models  Euro  | BJ001     | 9LB H005 31  | MW ANT coil                             |                        |               |               |                          | Asia madal             |
| T004 9L2 1370 33 FM DET transformer  XT001 9L2 1701 32 Crystal 7.2MHz  CF001 261 0064 007 Ceramic filter  CF001 261 0135 907 Ceramic filter  CF002 261 0136 906 Ceramic filter  CF002 261 0136 906 Ceramic filter  CF003 9LB P005 01 Ceramic filter  CF004 9LB P004 91 LF001 9L2 1363 13 L.P.F.  LF001 9L2 1363 13 L.P.F.  LF001 9L2 1363 14 J.F.F.  LF002 32 AT001 9LE R002 32 AT001 9LE W000 11 Tuner pack  Except Europe and U.K. models  Europe an | T003      | 9LB J002 51  | AM IF transfomer                        |                        | _             | 1             | · ·                      | ASIB MODEL             |
| CF001 261 0064 007 Ceramic filter Ceramic filter Ceramic filter SW708 9L2 6396 82R Tact switch (DRA-375)Asia (DRA-275) Except Europe and U.K. models U.K. models Europe and U.K. models U.K. models Europe and U.K. models U.K. models U.K. models Europe and U.K. models U.K. mo  | T004      | 9L2 1370 33  | FM DET transfomer                       |                        | ZE 341302     | 212 1103 004  | LOMei RMICH I A-O        |                        |
| CF001 261 0064 007 Ceramic filter  | XT001     | 9L2 1701 32  | Crystal 7.2MHz                          |                        | CW701 707     | 01.0.000.000  | To at auditab            |                        |
| CF001  | CF001     | 261 0064 007 | Ceramic filter                          | Europe and U.K. models |               |               |                          | (DDA 075) Ania madal   |
| CF002         261 0064 007         Ceramic filter         Europe and U.K. models           CF002         261 0136 906         Ceramic filter         Except Europe and U.K. models           CF003         9LB P005 01         Ceramic filter         Ceramic filter           CF004         9LB P004 91         Ceramic filter         Europe and U.K. models           LF001         9L2 1363 13         L.P.F.         Europe and U.K. models           LF002,003         9L2 1363 14         L.P.F.         Europe and U.K. models           JK601         9LE R002 32         4P US pin jack         Europe and U.K. models           AT001         9LE U000 11         ANT terminal board         Tuner pack         Except Europe and U.K. models           TU001         9LH H000 31         Tuner pack         Except Europe and U.K. models           Furope and U.K. models         Furope and U.K. models           Furope and U.K. models         Furope and U.K. models  | CF001     | 261 0135 907 | Ceramic filter                          | Except Europe and      | SW/08         | 9L2 6396 82H  | l act switch             | · ·                    |
| CF002  |           |              |   | U.K. models            |               |               |                          | , ,                    |
| CF002         261 0136 906         Ceramic filter         Except Europe and U.K. models         SW709         9L2 6396 82R         Tact switch         (DRA-375)         Except Asia mo (DRA-275)         Except Asia mo (DRA-275)         Except Asia mo (DRA-275)         Europe and U.K. models         SW710-715         9L2 6396 82R         Tact switch         Tact switch         U.S.A. and Can models         SW710-715         9L2 6396 82R         Tact switch         U.S.A. and Can models         U.S.A. and Can models         Tuner pack         Europe and U.K. models         D.S.A. and Can models         D.S.A. and Can models         Europe and U.K. models         D.S.A. and Can models         D.S.A. and Can models         Europe and U.K. models         D.S.A. and Can models         Europe and U.K. models         D.S.A. and Can models         Europe and U.K. models         D.S.A. and Can models         D.S.A. and Ca  | CF002     | 261 0064 007 | Ceramic filter                          | Europe and U.K. models |               |               |                          | •                      |
| CF003 9LB P005 01 Ceramic filter CF004 9LB P004 91 LF001 9L2 1363 13 LF.F. LF001 9L2 1363 13 LP.F. LF002,003 9L2 1363 14 JK.F. JK601 9LE R002 32 AP US pin jack AT001 9LE U000 11 Tuner pack  Europe and U.K. models  AP US pin jack ANT terminal board  TU001 9LH H000 31 Tuner pack  Except Europe and U.K. models  Fuse 5A, 125V  U.S.A. and Canadas  Europe and U.K. models  Fuse 72A, 250V  U.S.A. and Canadas  Except Europe and U.K. models  | CF002     | 261 0136 906 | Ceramic filter                          | Except Europe and      | CW700         | 01 0 0000 000 | To at auditab            |                        |
| CF003 9LB P005 01 Ceramic filter  CF004 9LB P004 91 Ceramic filter  LF001 9L2 1363 13 L.P.F.  LF002,003 9L2 1363 14 L.P.F.  JK601 9LE R002 32 4P US pin jack  AT001 9LE U000 11 Tuner pack  TU001 9LH H000 31 Tuner pack  Europe and U.K. models  Europe and U.K. models  Europe and U.K. models  Europe and U.K. models  Except Europe and U.K. models  Except Europe and U.K. models  U.K. models  Figure and U.K. models  |           |              |   | U.K. models            | SW/09         | 9L2 6396 82H  | l act switch             | ,                      |
| LF001 9L2 1363 13 L.P.F.   | CF003     | 9LB P005 01  | Ceramic filter                          |                        |               |               |                          | · ·                    |
| LF001 9L2 1363 13 L.P.F.   | CF004     | 9LB P004 91  | Ceramic filter                          |                        |               |               |                          | , ,                    |
| LF002,003 9L2 1363 14 L.P.F.   | LF001     | 9L2 1363 13  | L.P.F.                                  | Europe and U.K. models | QW710 715     | 01.3 6306 000 | Tast quitab              | curope and U.K. models |
| AT001 9LE U000 11 ANT terminal board  TU001 9LH H000 31 Tuner pack  Except Europe and U.K. models  TU001 9L 4286 51 Tuner pack  Except Europe and U.K. models  Fuse T2A, 250V  Europe and U.K. models  Fuse 4A, 125V  U.S.A. and Canada  ### ### ### ### ###################   | LF002,003 | 9L2 1363 14  | L.P.F.                                  | Europe and U.K. models | 3VV/10-/15    | 3LZ 0390 82H  | ract Switch              |                        |
| AT001 9LE U000 11 ANT terminal board  TU001 9LH H000 31 Tuner pack  Except Europe and U.K. models  U.K. models  TU001 9L 2 4286 51 Tuner pack  Except Europe and U.K. models  Figure and U.K. models  Figure and U.K. models   | JK601     | 9LE R002 32  | 4P US pin jack                          |                        | A Esos        | 01 2 7004 40  | Funn EA 1051/            | HCA and Canada         |
| TU001 9LH H000 31 Tuner pack Except Europe and U.K. models  TU001 9L 24286 51 Tuner pack Except Europe and U.K. models  Figure and U.K. models  Figure and U.K. models  Figure and U.K. models  Figure and U.K. models   | AT001     | 9LE U000 11  | ANT terminal board                      |                        | Z13 F 30 I    | SLC /224 18   | FU88 3A, 123V            |                        |
| TU001 9I 2 4286 51 Tuner pack U.K. models  | TU001     | 9LH H000 31  | Tuner pack                              | Except Europe and      | A SEC         | 010701010     | Euro TOA OSON            |                        |
| TU001   91 2 4286 51   Tuner nack   Furone and UK models   |           |              |   | U.K. models            |               |               |                          |                        |
| 91.2 /216 12   Fuse 11.6A, 250V   Europe model   | TU001     | 9L2 4286 51  | Tuner pack                              | Europe and U.K. models |               |               |                          |                        |
| · · · · · · · · · · · · · · · · · · ·  |           |              |   |                        | ETZ LOOS      | DLC /210 12   | FURE 11:0A, 200V         | curope moder           |
|  |           |              |   |                        |               |               |                          |                        |

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|----------|--------------|----------------------|-------------------------|
| Ref. No. | Part No.     | Part Name            | Remarks                 |
| E501,502 | 9L2 7292 52R | Fuse holder          |                         |
| E503,504 | 9L2 7292 52R | Fuse holder          | Asia model              |
| FL701    | 9LD D000 41  | FL tube              |                         |
| N701     | 9LN J017 11  | FL holder            |                         |
| CH701A   | 9LE D008 21  | 24P FFC cable holder | (DRA-375)Asia mode      |
| CH701A   | 9LE D008 21  | 24P FFC cable holder | (DRA-275)               |
|          |              |                      | Except Europe and       |
|          |              |                      | U.K. models             |
| CH701A   | 9LE D008 25  | 28P FFC cable holder | (DRA-375)               |
|          |              |                      | Except Asia model       |
| CH701A   | 9LE D008 25  | 28P FFC cable holder | (DRA-275)               |
|          |              |                      | Europe and U.K. models  |
|          |              |                      |                         |
| W701     | 9LE K001 56  | 24P flat cable       | (DRA-375) Asia mode     |
|          |              |                      | (DRA-275)               |
|          |              |                      | Except Europe and       |
|          |              |                      | U.K. models             |
| W701     | 9LE K001 57  | 28P flat cable       | (DRA-375)               |
|          |              |                      | Except Asia model       |
|          |              |                      | (DRA-275)               |
|          |              |                      | Europe and U.K. models  |
| JK501    | 9LE P000 91  | AC outlet            | Europe and Asia models  |
| JK501    | 9LE Y004 91  | AC outlet            | U.S.A. and Canada model |
|          |              |                      |                         |
| ΔAL501   | 9L2 6405 76  | Relay                | (DRA-375R)              |
|          |              |                      | Except U.K. model       |
|          |              |                      |                         |
| XL701    | 399 9018 003 | Crystal 4.0MHz       |                         |
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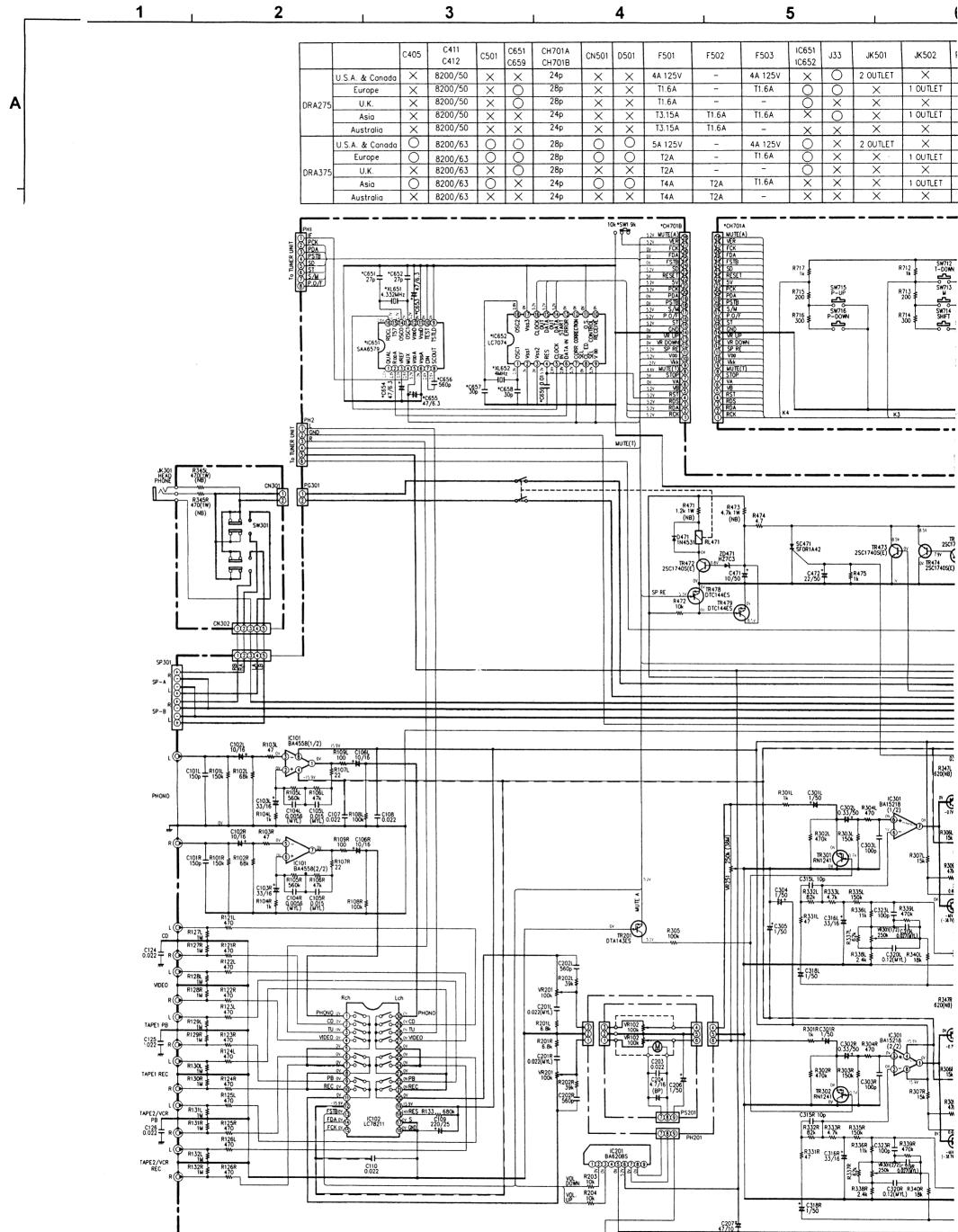
# PARTS LIST OF EXPLODED VIEW

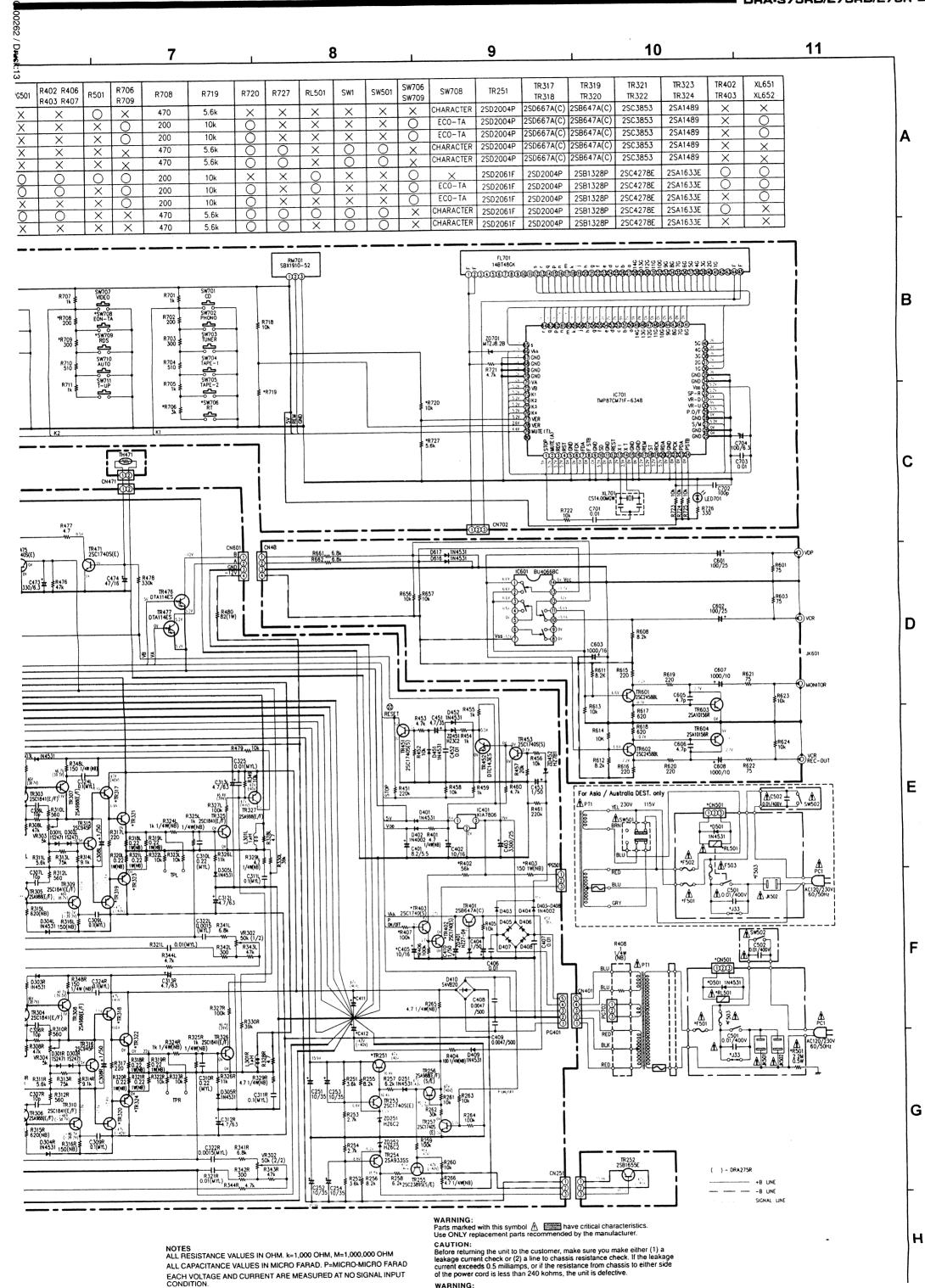
| Ref. | No. | Part No.                   | Part Name                                | Remarks                                      | Q'ty  | Ref. No.    | Part No.                   | Part Name                       | Remarks                            | Q'ty |
|------|-----|----------------------------|--|--|-------|-------------|----------------------------|---------------------------------|------------------------------------|------|
|      | 1   | 9LJ T056 41                | Main unit Ass'y                          | (DRA-375)U.S.A. and                          | 1     | 14          | 9L2 4286 51                | Tuner pack                      | Europe and U.K. models             | 1    |
|      | '   | 320 1000 11                | man am rooy                              | Canada models                                |       |             |                            |                                 |                                    |      |
|      |     | 9LJ T056 42                | Main unit Ass'y                          | (DRA-375)Europe model                        | 1     | <b>△</b> 21 | 9LB T005 61                | Power transformer               | (DRA-375)U.S.A. and                | 1    |
|      |     | 9LJ T056 43                | Main unit Ass'y                          | (DRA-375)U.K. model                          | 1     |             |                            |                                 | Canada models                      |      |
|      |     | 9LJ T056 46                | Main unit Ass'y                          | (DRA-375)Asia model                          | 1     | Δ           | 9LB T005 62                | Power transformer               | (DRA-375)Europe and                | 1    |
|      |     | 9LJ T056 71                | Main unit Ass'y                          | (DRA-275)U.S.A. and                          | 1     |             |                            |                                 | U.K. models                        |      |
|      |     |                            |  | Canada models                                |       | Δ           | 9LB T005 63                | Power transformer               | (DRA-375)Asia model                | -1   |
|      |     | 9LJ T056 72                | Main unit Ass'y                          | (DRA-275)Europe model                        | 1     | Δ           | 9LB T005 71                | Power transformer               | (DRA-275)U.S.A. and                | 1    |
|      |     | 9LJ T056 73                | Main unit Ass'y                          | (DRA-275)U.K. model                          | 1     |             |                            |                                 | Canada models                      | ١.   |
|      |     | 9LJ T056 76                | Main unit Ass'y                          | (DRA-275)Asia model                          | 1     | Δ           | 9LB T005 72                | Power transformer               | (DRA-275)Europe and<br>U.K. models | 1    |
|      |     |                            |  | (224 225)110 4                               |       | Δ           | 9LB T005 73                | Power transformer               | (DRA-275)Asia model                | 1    |
| 1    | 2   | 9LJ T056 51                | Display unit Ass'y                       | (DRA-375)U.S.A. and                          | 1     | 21.         | SED 100373                 | I OHEL BEISIDATE                | (DI III EI Officia Hands           | '    |
| 1    |     | 01 1 TOES 50               | Dicolou unit Acc'u                       | Canada models                                | 1     | 22          | 9LM 8001 12                | Heat sink                       | (DRA-375)                          | 1    |
|      |     | 9LJ T056 52<br>9LJ T056 53 | Display unit Ass'y<br>Display unit Ass'y | (DRA-375)Europe model<br>(DRA-375)U.K. model | 1     |             | 9LM 8001 11                | Heat sink                       | (DRA-275)                          | 1    |
|      |     | 9LJ T056 56                | Display unit Ass'y                       | (DRA-375)Asia model                          |       | 23          | 9LM A007 81                | Heat sink bracket               |                                    | 1    |
| l    |     | 9LJ T056 81                | Display unit Ass'y                       | (DRA-275)U.S.A. and                          |       | 24          | 9LM F001 71                | Insulation sheet                |                                    | 4    |
| 1    |     | 323 1030 01                | Display unit 7.55 y                      | Canada models                                |       | 25          | 9LE U003 81                | Front SP terminal               |                                    | 1    |
|      |     | 9LJ T056 82                | Display unit Ass'y                       | (DRA-275)Europe model                        | 1     | 26          | 9LE R003 51                | 4P US pin jack                  |                                    | 2    |
| 1    |     | 9LJ T056 83                | Display unit Ass'y                       | (DRA-275)U.K. model                          | 1     | 27          | 9LE R003 41                | 6P US pin jack                  |                                    | 1    |
| 1    |     | 9LJ T056 86                | Display unit Ass'y                       | (DRA-275)Asia model                          | 1     | 28          | 9LA L004 72                | Electrolytic                    |                                    | 2    |
|      |     |                            |  |  |       |             | _                          | 8200μF/63V                      |                                    |      |
|      | 3   | 9LJ T056 61                | Tuner unit Ass'y                         | (DRA-375)U.S.A. and                          | 1     | 29          | 9L2 6413 21                | Relay (24V)                     |                                    | 1    |
|      |     |                            |  | Canada models                                |       | 30          | 9LA Y001 85                | Variable 100kohm                | BASS                               | 1    |
|      |     | 9LJ T056 62                | Tuner unit Ass'y                         | (DRA-375)Europe model                        | 1     | 31          | 9LA Y001 86                | Variable 50kohm                 | TREBLE                             | 1    |
|      |     | 9LJ T056 63                | Tuner unit Ass'y                         | (DRA-375)U.K. model                          | 1     | 32          | 9LA Y001 87                | Variable 250kohm                | BAL                                | 1    |
|      |     | 9LJ T056 66                | Tuner unit Ass'y                         | (DRA-375)Asia model                          | 1     | 33          | 9LA Y001 84                | Variable 100kohm                | LOUD                               | 1    |
|      |     | 9LJ T056 91                | Tuner unit Ass'y                         | (DRA-275)U.S.A. and                          | 1     | 34          | 9LM L002 51                | Mini PWB post                   | VO.                                | 3    |
| 1    |     |                            |  | Canada models                                |       | 35<br>36    | 9L0 1579 02<br>9LM L002 61 | Variable 100kohm                | VOL                                | 1 2  |
| 1    |     | 9LJ T056 92                | Tuner unit Ass'y                         | (DRA-275)Europe model                        | 1     | 36          | 9LM L002 61                | PWB support L<br>Bottom chassis |                                    | 1    |
|      |     | 9LJ T056 93                | Tuner unit Ass'y                         | (DRA-275)U.K. model                          | 1     | 38          | 104 0282 007               | ł.                              |                                    | 4    |
|      |     | 9LJ T056 96                | Tuner unit Ass'y                         | (DRA-275)Asia model                          | 1     | 30          | 104 0202 007               | 1.000                           |                                    |      |
|      | 5   | 9L2 7131 48                | AC cord                                  | U.S.A. and Canada models                     |       | 41          | 9LQ A004 91                | Top cover                       | -                                  | 1    |
| Δ    | 3   | 9L2 9725 67                | AC cord                                  | Except U.S.A. and                            | 1 ; [ | 42          | 9LH N000 31                | Receiving unit                  | (SBX1910-52)                       | 1    |
| 4.53 |     | OCE 0120 01                | 710 0010                                 | Canada models                                |       | 43          | 9LD D000 41                | FL tube                         |                                    | 1    |
| Δ    | 6   | 9LM L000 61                | AC cord bushing                          | Except U.S.A. and                            | 1     | 44          | 9LE K001 56                | 24P flat cable                  | (DRA-375)Asia model                | 1    |
|      | ~   |                            | •  | Canada models                                |       |             |                            | -                               | (DRA-275)Except Europe             | -    |
| Δ    |     | 9L3 8722 71                | AC cord bushing                          | U.S.A. and Canada models                     | 1     |             |                            |                                 | and U.K. models                    |      |
|      | 7   | 9LQ A005 11                | Rear plate                               | (DRA-375)U.S.A. and                          | 1     |             | 9LE K001 57                | 28P flat cable                  | (DRA-375)                          | 1    |
|      |     |                            |  | Canada models                                |       |             |                            |                                 | Except Asia model                  |      |
|      |     | 9LQ A005 12                | Rear plate                               | (DRA-375)Europe model                        |       |             |                            |                                 | (DRA-275)Europe and                |      |
|      |     | 9LQ A005 13                | Rear plate                               | (DRA-375)U.K. model                          | 1     | A           | 040 4400 000               | n                               | U.K. models                        | ١.   |
| l    |     | 9LQ A005 14                | Rear plate                               | (DRA-375)Asia model                          | 1     | <b>△ 45</b> |                            | Power switch TV-5               |                                    | 1    |
| l    |     | 9LQ A005 21                | Rear plate                               | (DRA-275)U.S.A. and                          | 1     | 46          | 9LE Y005 01                | Headphone jack                  |                                    | 1    |
| l    |     |                            |  | Canada models                                |       | 47<br>48    | 9LF E001 81<br>9LP C017 91 | Speaker switch<br>SP button     |                                    | 2    |
| 1    |     | 9LQ A005 22                | Rear plate                               | (DRA-275)Europe model                        | 1 1   | 48          | 9LP C017 91                | Tuner button (10)               | (DRA-375)                          | 1    |
| l    |     | 9LQ A005 23                | Rear plate                               | (DRA-275)U.K. model                          | 1 1   | 73          | JE: 001/01                 | . siloi bullori (10)            | Except Asia model                  | '    |
| i    |     | 9LQ A005 24                | •  | (DRA-275)Asia model                          |       |             |                            |                                 | (DRA-275)Europe and                | 1    |
| 1    | 8   | 9LN X016 21                | Phono earth terminal                     |  | 1     |             |                            |                                 | U.K. models                        |      |
| 1    | 10  | 9LE P000 91                | AC outlet                                | Europe and Asia models                       | 1     |             | 9LP C017 62                | Tuner button (8)                | (DRA-375)Asia model                | 1    |
| l    | 10  | 9LE Y004 91                | AC outlet                                | U.S.A. and Canada models                     |       |             |                            | , ,                             | (DRA-275)Except Europe             | 1    |
| Δ    | 11  | 9L2 6405 76                | Relay                                    | (DRA-375R)                                   | i     |             |                            |                                 | and U.K. models                    |      |
|      |     |                            | <del>,</del>                             | Except U.K. model                            |       | 50          | 9LP C017 51                | Function button                 |                                    | 1    |
|      | 12  | 9LE R002 32                | 4P US pin jack                           |  | 1     | 51          | 9LP H035 62                | Clear panel                     |                                    | 1    |
| ł    | 13  | 9LE U000 11                | ANT terminal board                       |  | 1     | 52          | 9LP C017 81                | Power button                    |                                    | 1    |
| ŀ    | 14  | 9LH H000 31                | Tuner pack                               | Except Europe and                            | 1     | 53          | 9LP C017 41                | Bass knob                       |                                    | 4    |
| 1    |     |                            |  | U.K. models                                  |       | 54          | 9LP C017 31                | Vol knob                        | '                                  | 1 1  |

| Re | f. No. | Part No.   | Part Name  | Remarks   | Q'ty   | Ref. No. | Part No.    | Part Name | Remarks           | Q'ty |
|----|--------|--|--|---|--------|----------|-------------|-----------|-------------------|------|
|    | 55     | 9LP H035 53  | Innerpanel   | (DRA-375)U.S.A. and                                 | 1      |          | 9L3 6296 35 | Poly sack | U.K. model        | 1    |
|    |        |  |  | Canada models                                       |        |          | 9L3 6296 36 | Poly sack | Except U.K. model | 1    |
|    |        | 9LP H035 54  | Innerpanel   | Europe and U.K. models                              | 1      |          |             |           |                   |      |
|    |        | 9LP H035 55  | Innerpanel   | Asia model  | 1      |          |             |           |                   |      |
|    |        | 9LP H035 56  | Innerpanel   | (DRA-275)U.S.A. and                                 | 1      |          |             |           |                   | :    |
|    |        |  |  | Canada models                                       |        | l l      |             |           |                   |      |
|    | 56     | 9LP H035 44  | Front panel  | (DRA-375)U.S.A. and                                 | 1      |          |             |           |                   |      |
|    |        |  |  | Canada models                                       |        | 1        |             |           |                   |      |
|    |        | 9LP H035 45  | Front panel  | (DRA-375)Europe and                                 | 1      | İ        |             |           |                   |      |
|    |        |  |  | U.K. models   |        | 1        |             |           |                   |      |
|    |        | 9LP H035 46  |  | (DRA-375)Asia model                                 | 1      |          |             |           |                   |      |
|    |        | 9LP H035 47  | Front panel  | (DRA-275)U.S.A. and                                 | 1      |          |             |           |                   |      |
|    |        |  |  | Canada models                                       |        |          |             |           |                   |      |
|    |        | 9LP H035 48  | Front panel  | (DRA-275)Europe and                                 | 1      |          |             |           |                   |      |
|    |        |  |  | U.K. models   |        |          |             |           |                   |      |
|    |        | 9LP H035 49  | Front panel  | (DRA-275)Asia model                                 | 1      |          |             |           |                   |      |
|    |        | el = Dago an   | 50-1-  | 1136  | 1      |          |             |           |                   |      |
| Ľ  | 760    | 9LE P000 62  | Matter Control | U.K. model  |        |          |             |           |                   |      |
|    | 61     | 9LN J017 91  | Button holder  | (DRA-375)U.S.A. and                                 | 1      |          |             |           |                   |      |
|    |        |  |  | Canada models                                       |        |          |             |           |                   |      |
|    | 101    | 475 6138 002   | Nut MOVO 75  |   | 5      |          |             |           |                   |      |
|    | 102    | 475 6124 003   | 1 '  |   | 1      |          |             |           |                   |      |
|    | 102    | i  | Screw 3x6 DT   |   | 4      |          |             |           |                   |      |
|    | 103    | i  | Screw 3x6 DT BIND B  |   | 9      |          |             |           |                   |      |
|    |        |  | Screw 4x6 DT BIND B  |   | 8      |          |             |           |                   |      |
|    | 105    | 9L8 6796 06  | ŀ  | (DDA 275)   C A and                                 | 1      |          |             |           |                   |      |
|    | 106    | 9L8 6913 08  | SCIEW 2.0X0 DT DIND  | (DRA-375)U.S.A. and<br>Canada models                |        |          |             |           |                   |      |
|    | 107    | 01.0 6014.10   | Screw 3x10 BH BT   | Cariada models                                      | 28     |          |             |           |                   |      |
|    | 107    | 9L8 6914 10  | 1  | Asia model  | 20     |          |             |           |                   |      |
|    | 108    | 9L8 6993 08  | Screw 2.6x8 BT BIND B  | Asia model  | 27     |          |             |           |                   |      |
|    | 109    | 9L8 6994 10  | Screw 3x10 BH BT BBC   |   | 21     |          |             |           |                   |      |
|    |        |  |  |   | $\Box$ |          |             |           |                   |      |
| P  | ACKIN  | G & ACCES  |  |   |        |          |             |           |                   |      |
|    |        | 9LE F021 31  | FM ANT connector   |   | 1      |          |             |           |                   |      |
|    |        | 9L2 7593 41  | AM loop ANT  |   | 1      |          |             |           |                   |      |
|    |        | 9LE Y002 81  | Edison pulg adapter  | Asia model  | 1      |          |             |           |                   |      |
|    |        | 9LH 0066 01  | Remote controller  |   | 1      |          |             |           |                   |      |
|    |        |  | Instruction manual   | U.S.A. and Canada models                            | 1      |          |             |           |                   |      |
|    |        |  | Instruction manual   | Europe model  | 1      |          |             |           |                   |      |
|    |        | 1  | Instruction manual   | U.K. model  | 1      |          |             |           |                   |      |
|    |        | 9LQ R066 44  | Instruction manual   | Asia model  | 1      |          |             |           |                   |      |
|    |        | 01.0.0.00  | Datasasi   | F   |        |          |             |           |                   |      |
|    |        | 9L3 6402 13W   | - 1  | Europe model  | 1      |          |             |           |                   |      |
|    |        | 9L3 6402 14W   | Poly sack  | Except Europe model                                 | 1      |          |             |           |                   |      |
|    |        |  |  |   |        |          |             |           |                   |      |
|    |        | 9LS G047 21  | Carton box E3  | (DAR-375)U.S.A. and                                 | 1      | l i      |             |           |                   |      |
|    |        |  |  | Canada models                                       |        |          |             |           |                   |      |
|    |        | 9LS G047 22  | Carton box E2/EK   | (DRA-375)Europe and                                 | 1      |          |             |           |                   |      |
|    |        |  |  | U.K. models   |        |          |             |           |                   |      |
|    |        | 91 S G047 23 1   | Carton box E1  | (DRA-375)Asia model                                 | 1      |          |             |           |                   |      |
|    |        |  |  | IDAD OZENIĆAJ                                       | 1      |          |             |           |                   |      |
|    |        |  | Carton box E3  | (DAR-275)U.S.A. and                                 |        |          |             |           |                   |      |
|    |        | 9LS G047 31  |  | Canada models                                       |        |          |             |           |                   |      |
|    |        | 9LS G047 31  | Carton box E3 Carton box E2/EK   | Canada models<br>(DRA-275)Europe and                | 1      |          |             |           |                   |      |
|    |        | 9LS G047 31  |  | Canada models<br>(DRA-275)Europe and<br>U.K. models | 1      |          |             |           |                   |      |
|    |        | 9LS G047 31<br>9LS G047 32                               |  | Canada models<br>(DRA-275)Europe and                | 1      |          |             |           |                   |      |
|    |        | 9LS G047 31<br>9LS G047 32<br>9LS G047 33                | Carton box E2/EK Carton box E1   | Canada models<br>(DRA-275)Europe and<br>U.K. models | 1      |          |             |           |                   |      |
|    | - 1    | 9LS G047 31<br>9LS G047 32<br>9LS G047 33<br>9LS P029 51 | Carton box E2/EK   | Canada models<br>(DRA-275)Europe and<br>U.K. models |        |          |             |           |                   |      |

SCI

SCHEMATIC DIAGRAM (1/2)





CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:
DO NOT return the unit to the customer until the problem is located and

